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**FLUOR** GLOBAL SERVICES

June 4, 2001

FH-0103068

Ms. J. H. Kessner, Program Manager
Analytical Services
Bechtel Hanford
3190 George Washington Way H9-03
Richland, Washington 99352

JUN 2001 RECEIVED

Dear Ms. Kessner:

FINAL RESULTS FOR THE 276-S HEXONE TANK SLUDGE SAMPLES

References: (1) HNF-SD-CD-QAPP-016, Rev. 4A, *222-S Laboratory Quality Assurance Plan*, April 21, 2001.
(2) Letter, J. J. McGuire, BHI, to E.F. Mares, FH, "Letter of Instruction for the 276-S Hexone Tank Stabilization Sample Analysis," 08666, dated February 16, 2001.

This letter and attachments present the final results for solid samples (B11H72-A, B11H73-A, B11H74-A, B11H75-A, B11D03-A, B11D04-A, B11D05-A, B11D06-A, and B11D07-A) received from the 276S Hexone Tank Stabilization project at the 222-S Laboratory on March 9, 2001. The samples were analyzed for those analytes indicated on the attached copy of the chain of custody form in accordance with the *Letter of Instruction for the 276-S Hexone Tank Stabilization Sample Analysis* referenced above. Variances to the requested analyses were agreed upon as indicated in the electronic messages included as Attachment 7.

If you have any questions regarding this report, please feel free to call me on 373-4314.

Sincerely,

Ruth A Bushaw

Ruth A Bushaw, Project Coordinator
Analytical Services
222-S Laboratory

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Attachments (7)

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ATTACHMENT 1

# NARRATIVE

Consisting of 7 pages,
Including cover page

# FINAL RESULTS FOR THE 276-S HEXONE TANK SLUDGE SAMPLES

Nine solid samples (B11H72-A, B11H73-A, B11H74-A, B11H75-A, B11D03-A, B11D04-A, B11D05-A, B11D06-A, and B11D07-A) from the 276-S Hexone Tank Stabilization project were received at the 222-S Laboratory on March 9, 2001. The samples were analyzed for those analytes indicated on the attached copies of the chain of custody (COC) forms in accordance with the *Letter of Instruction for the 276-S Hexone Tank Stabilization Sample Analysis* (LOI), referenced in the cover letter.

A Data Summary Report is included as Attachment 2. The correlation between customer sample identification numbers and laboratory identification numbers are presented in the sample breakdown diagrams included as Attachment 3. Tentatively identified compounds (TICs) for the semi-volatile organic analysis (SVOA) were included as Attachment 4. Laboratory control sample data and sample and TIC data sheets for the volatile organic analysis (VOA) were included as Attachment 5. Copies of the chain of custody and Request for Sample Analysis forms were included as Attachment 6.

The chain of custody forms requested mercury and percent solids analysis on the solid samples. The total Hg analysis could not be completed for hexone tank samples B11D03-A, B11D04-A, B11D05-A, B11D06-A, and B11D07-A due to the extremely high organic content characterizing these samples. The gravimetric percent solids procedure was attempted, but the samples volatilized rapidly and contaminated the oven. The 222-S Laboratory ran differential scanning calorimetry (DSC) and thermogravimetric analysis (TGA) on sample B11D03-A as a safety precaution. Since no water was observed in this sample using these two analyses, the gravimetric percent solids analysis was considered not applicable to B11H72-A, B11H73-A, B11H74-A, and B11H75-A. The request for these two analyses was cancelled. These variances were communicated to and accepted by the 276-S Hexone Tank Stabilization Project personnel via electronic mail message, included as Attachment 7.

Samples B11D03-A, B11D04-A, B11D05-A, B11D06-A, and B11D07-A were analyzed for polychlorinated biphenyls (PCB). Aroclor 1254 was observed in all of the samples with results in the range of 1.44 μg/g (as received) to 7.21 μg/g (as received). The 222-S Laboratory PCB status of the samples was changed from "Suspect PCB" to "No Regulated Amount".

Samples B11D03-A, B11D04-A, B11D05-A, B11D06-A, and B11D07-A were analyzed for metals by the toxic characteristic and leach procedure (TCLP). Low concentrations of barium were detected in all of the samples and a low concentration of lead was detected in sample B11D07-A. All concentrations were below the TCLP regulatory levels.

The chain of custody form for samples B11D03-A, B11D04-A, B11D05-A, B11D06-A, and B11D07-A requested the 222-S Laboratory to "add on" the compound 1-butanol for VOA.

Since this compound is not included in the standard target compound list analyzed at the 222-S Laboratory, the results were not included in the Data Summary Report. However, the results were included with the VOA data presented in Attachment 5.

**Sample Appearance and Handling**

B11H72-A: The sample was black with a "hot tar" consistency.

B11H73-A: The sample contained a rusty liquid with flat scale shaped solids. The lab was unable to homogenize the sample.

B11H74-A: The sample was black with a "hot tar" consistency.

B11H75-A: The sample had a "hot tar" consistency that could not be broken up.

B11D03-A: Sample consistency was not checked due to the volatile organic compound (VOC) analysis, but appeared to have the same "hot tar" consistency of the other samples.

B11D04-A: Sample consistency was not checked due to the VOC analysis, but appeared to have the same "hot tar" consistency of the other samples.

B11D05-A: Dark brown rusty liquid with sandy solids.

B11D06-A: Sample consistency was not checked due to the VOC analysis, but appeared to have the same "hot tar" consistency of the other samples.

B11D07-A: Sample consistency was not checked due to the VOC analysis, but appeared to have the same "hot tar" consistency of the other samples.

**Analytical Results**

The samples appeared to be mostly organic material. The solubility in water was very poor. Therefore, it is important to realize that the results for cyanide (CN) and anions by ion chromatography (IC), which were prepared by water "digest", only represent the portion of the sample that was water leachable.

**Holding Times**

As indicated in the correspondence in Attachment 7, the two- to six-day delay in receipt of the samples and the 222-S Laboratory requirement for performing the total alpha analysis prior to other analyses for "high alpha activity" samples, resulted in missing the SW-846 holding times for TCLP extraction (28 days), VOA (14 days), SVOA extraction (14 days), mercury (Hg) (28 days), pH (24 hours), nitrate (48 hours) and cyanide (14 days). By verbal agreement between the 222-S Laboratory and the 276-S Hexone Tank Stabilization Project personnel, the Hg, organic analyses and TCLP extractions were performed within 2 times the holding times.

## Quality Control Results

Standard Recovery

All laboratory control standard (LCS) recoveries were acceptable in accordance with the 222-S Laboratory Quality Assurance Plan (QAPP-016) except as noted below.

The samples requiring SVOA were prepared in two batches. The percent recoveries are provided below for each LCS recovery outside the range of 70-130%. Some compounds failed the LCS recovery in both batches. For those compounds, two recoveries are listed below. The following LCS failures were noted: Pentachlorophenol (9% LCS recovery for sample B11D03-A, 25% LCS recovery for samples B11D04-A, B11D05-A, B11D06-A, and B11D07-A), Pyrene (69% recovery for sample B11D03-A), N-Nitroso-di-n-propylamine (60% LCS recovery for sample B11D03-A), 4-Nitrophenol (22% LCS recovery for sample B11D03-A, 26% LCS recovery for samples B11D04-A, B11D05-A, B11D06-A, and B11D07-A), 2, 4-Dinitrotoluene (62% LCS recovery for sample B11D03-A, 65% LCS recovery for samples B11D04-A, B11D05-A, B11D06-A, and B11D07-A), and 1,4-Dichlorobenzene (68% LCS recovery for B11D04-A).

For the VOA analysis, an LCS was analyzed, but the 222-S Laboratory database was not configured to upload the data at the time of analysis. Therefore, the recoveries for the VOA LCS were included in were included in Attachment 5 and not in the Data Summary Report.

Preparation Blanks

Low contamination from barium (from 7-10% of the analyte concentration) was detected in the TCLP blank. Since the concentration of this analyte in the blank and associated samples was less than 5% of the target practical quantification limit (PQL) requested in the LOI, the contamination was considered insignificant and no reanalysis was requested, as allowed by QAPP-016.

Contamination from 2-butanone found in the method blank for the VOC analysis exceeded both the sample results (in 4 of 5 sample) and the PQL (for all samples). Contamination for total xylenes in the method blank exceeded all the sample results; no PQL was specified for this analyte. Blank contamination for di-n-butylphthlate was just over 6% of the sample concentration for sample B11D04-A; no PQL was specified for this analyte. No re-analyses were requested due to the difficulty of obtaining results for these analytes in a high organic matrix. Blank contamination was also reported for acetone, 4-methyl-2-pentanone, di-n-butylphthlate, and fluoride in various samples, but was less than 5% of the sample results as allowed by QAPP-016.

Matrix Spikes and Duplicates

A single duplicate sample and/or matrix spike (MS)/matrix spike duplicate (MSD) pair were analyzed where applicable. All spike recoveries and relative percent differences (RPD) were acceptable in accordance with QAPP-016 except as noted below.

Inductively coupled plasma (ICP): There were no spike failures. RPD failures (RPD > 20%) were noted for all detected analytes (chromium, copper and nickel in the direct analysis and barium in the TCLP extract). The RPD ranged from 24.3-69.4%. This was not unexpected due to the difficulty with sample homogenization (noted in the sample description above) and that the detected amounts were less than 10 times the analyte detection limit.

Ion Chromatography (IC): There were no spike failures. RPD failures were reported for fluoride (66.3%) and phosphate (33.4%). This was not unexpected due to the difficulty with sample homogenization (noted in the sample description above).

VOA: There were no spike failures. RPD failures on a duplicate sample were reported for dibromochloromethane, 1,1,2-trichororethane, toluene, chlorobenzene, styrene, and xylenes (total), but these analyte concentrations were less than 2 times the reported detection limits. Only 4-methyl-2-pentanone was significantly above the detection limit (>10x) with an RPD of 24%. Again the high RPDs were attributed to the sample inhomogeneity.

SVOC: The matrix spike recovery for tri-n-butylphosphate was reported as –2.30e+2%. This unusual result was due to the high concentration of this compound in the sample compared to the concentration in the matrix spike standard added. When the sample concentration exceeds the matrix spike concentration by more than a factor of 4, the spike recovery criterion is not applicable. The duplicate RPD on this same sample was 2% and the MS/MSD RPD was 36%. The high RPD for the MS/MSD was attributed to sample inhomogeneity.

PCBs: The matrix spike recovery for Aroclor-1254 was 52.3%, less than the allowed limit. As discussed in the previous paragraph, the high concentration of the analyte in the sample with respect to the spike concentration might have been the cause for the low recovery and the criterion for spike recovery was not applicable. The RPD for the MS/MSD was 67% and was attributed to sample inhomogeneity.

Surrogate Recoveries

For the VOA, SVOA and PCB analyses, surrogate standards were added to the samples to assess the accuracy of the method. All of the surrogate recoveries were within the acceptance limits of 50% - 150% recovery allowed by QAPP-016, except as noted below.

For the SVOA, the surrogate recovery for 2,4,6-tribromophenol in the method blank was 47% and 2-fluorophenol in the LCS was 48%. For the samples, the surrogate recoveries should be considered estimated because the concentration of surrogate standard added was very low compared to the concentration of SVOA compounds in the samples and the samples were diluted to the extent that the concentrations of the surrogates were near or below the low calibration standard. No reanalysis was performed because with the high concentration of tri-n-butylphosphate (TBP) in the sample, the same dilution would be required and addition of a higher concentration of the surrogate standards would be impractical because it would create a required dilution for the LCS and method blank. The recoveries of the surrogates for the LCS and method blank indicate that the instrumentation was in good calibration.

For the PCB analysis, the surrogate recoveries for the samples were based on concentrations that were below the low calibration standards because of the dilution required due to high concentration of Aroclor 1254 in the samples. Surrogate recoveries for the LCS and preparation blank were in control.

Practical Quantitation Limits (PQL)

The LOI requested practical quantitation limits (PQL) be met for many of the requested analytes. All PQLs were met, except as discussed below.

For those analytes reported as non-detected, the customer requested practical quantitation limits (PQL) or detection limits (DL) were not met for antimony, arsenic, beryllium, cadmium, chromium, lead, nickel, selenium, and cyanide for all the solid samples. Detection limits were not met for barium and copper on samples B11D05-A and B11D07-A. All other requested PQLs were met.

The high reported detection limits were the result of dilutions required to reduce the concentration of other analytes in the sample. A reanalysis was not performed because the laboratory used the least dilution, or the largest sample size possible.

For the SVOA method, the laboratory has just recently been asked to expand the reported compound list and method detection limit studies have not been completed for many of the requested compounds. The detection limits for these compounds were reported as "n/a". Detection limits would be at least in the same order of magnitude as those reported due to the dilution required for the high concentration of organic compounds in the sample.

**Analytical Procedures**

Table 1 presents the 222-S Laboratory analytical procedures used to generate the reported results.

**Table 1. Analytical Procedures**

| Analysis | Preparation Procedure | Analysis Procedure |
|---|---|---|
| **Inorganic Analyses** | | |
| pH | Direct | LA-212-105 Rev. C-4 |
| Hg | Direct | LA-325-106 Rev. A-4 |
| CN | Direct | LA-695-103 Rev. C-1 |
| IC | Water Digest | LA-533-107 Rev. B-0 |
| ICP (TCLP) | TCLP Extraction/Acid Digest | LA-505-161 Rev. D-0 |
| ICP (Total Metals) | Acid Digest | LA-505-161 Rev. D-0 |
| Bulk Density | Direct | LA-519-132 Rev. E-3 |

**Table 1. Analytical Procedures**

| Analysis | Preparation Procedure | Analysis Procedure |
|---|---|---|
| **Radionuclide Analysis** | | |
| AT | Fusion Digest | LA-508-101 Rev. G-2 |
| **Organic Analyses** | | |
| VOA | Direct | LA-523-118 Rev. A-0 |
| SVOA | LA-523-138 Rev. B-3 | LA-523-456 Rev. B-2 |
| PCB | LA-523-138 Rev. B-3 | LA-523-140 Rev. A-0 |

Water digest procedure – LA-504-101 Rev. G-3
Acid digest procedure – solid: LA-505-163 Rev. C-0; liquid: LA-505-158 Rev. F-0
TCLP extraction procedure – LA-544-134 Rev. C-1
Fusion digest procedure – LA-549-141 Rev. G-2

Abbreviations

Hg – mercury
CN – cyanide
IC – ion chromatography
ICP – inductively coupled plasma
AT – gross alpha
TCLP – toxic characterization leach procedure
VOA – volatile organic analysis
SVOA – semi-volatile organic analysis
PCB – polychlorinated biphenyls



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ATTACHMENT 2

# DATA SUMMARY REPORT

Consisting of 25 pages,
Including cover page

Attachment 2. Data Summary Report
276SHEX SDG1

CORE NUMBER: n/a
SEGMENT #: B11D03-A

SEGMENT PORTION: DIR1

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000135 | | | pH on Solid Samples | pH | n/a | n/a | 4.820 | 4.860 | 4.840 | 0.83 | n/a | 1.00e-02 | n/a |

Direct - VOA: Direct - VOA

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000091 | | | Vinyl Chloride | ug/Kg | n/a | ND | 2.65e+03 | ND | n/a | n/a | n/a | 2.50e+03 | n/a |
| S01M000091 | | | Chloromethane | ug/Kg | n/a | ND | 3.58e+03 | ND | n/a | n/a | n/a | 2.50e+03 | n/a |
| S01M000091 | | | Bromomethane | ug/Kg | n/a | ND | 2.27e+02 | ND | n/a | n/a | n/a | 2.50e+03 | n/a |
| S01M000091 | | | Chloroethane | ug/Kg | n/a | ND | 5.36e+02 | ND | n/a | n/a | n/a | 2.50e+03 | n/a |
| S01M000091 | | | Methylene Chloride | ug/Kg | n/a | ND | 1.42e+03 | ND | n/a | n/a | n/a | 2.50e+03 | n/a |
| S01M000091 | | | Acetone | ug/Kg | n/a | 110 | 4.72e+04 | 4.74e+04 | 4.73e+04 | 0.00 | n/a | 2.50e+03 | n/a |
| S01M000091 | | | Carbon Disulfide | ug/Kg | n/a | ND | 1.39e+03 | ND | n/a | n/a | n/a | 2.50e+03 | n/a |
| S01M000091 | | | 1,1-Dichloroethane | ug/Kg | n/a | ND | 2.69e+03 | ND | n/a | n/a | n/a | 2.50e+03 | n/a |
| S01M000091 | | | 1,2-Dichloroethene (cis & tran | ug/Kg | n/a | ND | 5.86e+03 | ND | n/a | n/a | n/a | 2.50e+03 | n/a |
| S01M000091 | | | Chloroform | ug/Kg | n/a | ND | 2.51e+03 | ND | n/a | n/a | n/a | 2.50e+03 | n/a |
| S01M000091 | | | 1,2-Dichloroethane | ug/Kg | n/a | ND | 2.85e+03 | ND | n/a | n/a | n/a | 2.50e+03 | n/a |
| S01M000091 | | | 2-Butanone | ug/Kg | n/a | 6180 | 4.40e+03 | 4.78e+03 | 4.59e+03 | 8.00 | n/a | 2.50e+03 | n/a |
| S01M000091 | | | 1,1,1-Trichloroethane | ug/Kg | n/a | ND | 2.19e+03 | ND | n/a | n/a | n/a | 2.50e+03 | n/a |
| S01M000091 | | | Carbon Tetrachloride | ug/Kg | n/a | ND | 2.08e+03 | ND | n/a | n/a | n/a | 2.50e+03 | n/a |
| S01M000091 | | | Bromodichloromethane | ug/Kg | n/a | ND | 7.90e+02 | ND | n/a | n/a | n/a | 2.50e+03 | n/a |
| S01M000091 | | | 1,2-Dichloropropane | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | 2.50e+03 | n/a |
| S01M000091 | | | cis-1,3-Dichloropropene | ug/Kg | n/a | ND | 1.33e+03 | ND | n/a | n/a | n/a | 2.50e+03 | n/a |
| S01M000091 | | | Trichloroethene | ug/Kg | n/a | ND | 2.60e+03 | ND | n/a | n/a | 90.00 | 2.50e+03 | n/a |
| S01M000091 | | | Dibromochloromethane | ug/Kg | n/a | ND | 1.48e+03 | 467.0 | 973.5 | 104 | n/a | 2.50e+03 | n/a |
| S01M000091 | | | 1,1,2-Trichloroethane | ug/Kg | n/a | ND | 2.92e+03 | 4.03e+03 | 3.48e+03 | 32.0 | n/a | 2.50e+03 | n/a |
| S01M000091 | | | Benzene | ug/Kg | n/a | ND | 3.06e+03 | ND | n/a | n/a | 98.00 | 2.50e+03 | n/a |
| S01M000091 | | | trans-1,3-Dichloropropene | ug/Kg | n/a | ND | 1.13e+03 | ND | n/a | n/a | n/a | 2.50e+03 | n/a |
| S01M000091 | | | Bromoform | ug/Kg | n/a | ND | 6.25e+02 | ND | n/a | n/a | n/a | 2.50e+03 | n/a |
| S01M000091 | | | 4-Methyl-2-pentanone | ug/Kg | n/a | 13200 | 8.43e+06 | 6.60e+06 | 7.52e+06 | 24.0 | n/a | 2.50e+03 | n/a |
| S01M000091 | | | 2-Hexanone | ug/Kg | n/a | ND | 3.35e+04 | 3.33e+04 | 3.34e+04 | 1.00 | n/a | 2.50e+03 | n/a |
| S01M000091 | | | Tetrachloroethene | ug/Kg | n/a | ND | 1.00e+03 | ND | n/a | n/a | n/a | 2.50e+03 | n/a |
| S01M000091 | | | Toluene | ug/Kg | n/a | ND | 3.38e+03 | 2.44e+03 | 2.91e+03 | 32.0 | 86.00 | 2.50e+03 | n/a |
| S01M000091 | | | 1,1,2,2-Tetrachloroethane | ug/Kg | n/a | ND | 5.45e+04 | ND | n/a | n/a | n/a | 2.50e+03 | n/a |
| S01M000091 | | | Chlorobenzene | ug/Kg | n/a | ND | 1.17e+03 | 76.40 | 623.2 | 175 | 85.00 | 2.50e+03 | n/a |
| S01M000091 | | | Ethylbenzene | ug/Kg | n/a | ND | 6.69e+03 | 5.52e+03 | 6.10e+03 | 19.0 | n/a | 2.50e+03 | n/a |
| S01M000091 | | | Styrene | ug/Kg | n/a | ND | 1.63e+03 | 2.68e+03 | 2.16e+03 | 49.0 | n/a | 2.50e+03 | n/a |
| S01M000091 | | | Xylenes (total) | ug/Kg | n/a | 4850 | 3.89e+03 | 2.38e+03 | 3.14e+03 | 48.0 | n/a | 2.50e+03 | n/a |
| S01M000091 | | | 1,1-Dichloroethene | ug/Kg | n/a | ND | 2.96e+03 | ND | n/a | n/a | 99.00 | 2.50e+03 | n/a |

H2ODIG01: H2ODIG01

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000131 | | W | Fluoride IC SW846 | ug/g | 92.50 | 0.0200 | 86.88 | 43.60 | 65.24 | 66.3 | 106.7 | 2.044 | n/a |
| S01M000131 | | W | Chloride SW-846 | ug/g | 97.88 | <0.0170 | 30.66 | 25.40 | 28.03 | 18.8 | 91.76 | 2.896 | n/a |
| S01M000131 | | W | Nitrite IC SW846 | ug/g | 96.18 | <0.108 | < 18.40 | <19.6 | n/a | n/a | 88.36 | 18.40 | n/a |
| S01M000131 | | W | Nitrate by IC SW846 | ug/g | 99.00 | <0.139 | < 23.68 | <25.3 | n/a | n/a | 92.33 | 23.68 | n/a |
| S01M000131 | | W | Phosphate by IC SW846 | ug/g | 101.6 | <0.120 | 2.68e+02 | 191.0 | 229.2 | 33.4 | 104.5 | 20.44 | n/a |
| S01M000131 | | W | Sulfate by IC SW846 | ug/g | 100.2 | <0.138 | < 23.51 | <25.1 | n/a | n/a | 92.92 | 23.51 | n/a |

Parent: Parent

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000086 | | | Cyanide EDTA Addition | ug/g | 103.1 | <3.80E-2 | < 2.300 | <1.89E+0 | n/a | n/a | 94.10 | 2.300 | n/a |
| S01M000086 | | | Volume % Settled Solids | % | n/a | n/a | 95.00 | n/a | n/a | n/a | n/a | 1.00e-01 | n/a |
| S01M000086 | | | Color of Sample | | n/a | n/a | black | n/a | n/a | n/a | n/a | n/a | n/a |

SVOA/PCB: SVOA/PCB

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000096 | | | Aroclor-1016 by SW-846 8082 | ug/Kg | n/a | <50 | <4.52e+02 | n/a | n/a | n/a | n/a | 452.1 | n/a |
| S01M000096 | | | Aroclor-1221 by SW-846 8082 | ug/Kg | n/a | <150 | <1.36e+03 | n/a | n/a | n/a | n/a | 1.36e+03 | n/a |
| S01M000096 | | | Aroclor-1232 by SW-846 8082 | ug/Kg | n/a | <140 | <1.27e+03 | n/a | n/a | n/a | n/a | 1.27e+03 | n/a |
| S01M000096 | | | Aroclor-1242 by SW-846 8082 | ug/Kg | n/a | <80 | <7.23e+02 | n/a | n/a | n/a | n/a | 723.3 | n/a |
| S01M000096 | | | Aroclor-1248 by SW-846 8082 | ug/Kg | n/a | <40 | <3.62e+02 | n/a | n/a | n/a | n/a | 361.7 | n/a |
| S01M000096 | | | Aroclor-1254 by SW-846 8082 | ug/Kg | 98.40 | <40 | 7.21e+03 | n/a | n/a | n/a | 52.32 | 200.0 | n/a |
| S01M000096 | | | Aroclor-1260 by SW-846 8082 | ug/Kg | n/a | <50 | <4.52e+02 | n/a | n/a | n/a | n/a | 452.1 | n/a |
| S01M000096 | | | Aroclor-1262 by SW-846 8082 | ug/Kg | n/a | <40 | <3.62e+02 | n/a | n/a | n/a | n/a | 361.7 | n/a |
| S01M000096 | | | bis-(2-Chloroethyl) ether | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | 1,3-Dichlorobenzene | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | 1,2-Dichlorobenzene | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | 2,2'-oxybis(1-Chloropropane) | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | Isophorone | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | 2,4-Dimethylphenol | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | bis(2-Chloroethoxy)methane | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | 4-Chloroaniline | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | 2-Methylnaphthalene | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | Hexachlorocyclopentadiene | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | 2,4,6-Trichlorophenol | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | 2-Chloronaphthalene | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | 2-Nitroaniline | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | Dimethylphthalate | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | Acenaphthylene | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | 2,6-Dinitrotoluene | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | 3-Nitroaniline | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | 2,4-Dinitrophenol | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | Dibenzofuran | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | Diethylphthalate | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | 4-Chlorophenyl-phenylether | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | Fluorene | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | 4-Nitroaniline | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | 4,6-Dinitro-2-methylphenol | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |

000011

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000096 | | | N-Nitrosodiphenylamine | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | 4-Bromopnhenyl-phenylether | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | Hexachlorobenzene | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | Pentachlorophenol | ug/Kg | 9.00 | ND | ND | ND | n/a | n/a | n/a | 2.27e+05 | n/a |
| S01M000096 | | | Phenol | ug/Kg | 75.00 | ND | ND | ND | n/a | n/a | n/a | 3.61e+04 | n/a |
| S01M000096 | | | Phenanthrene | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | Anthracene | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | Di-n-butylphthalate | ug/Kg | n/a | 3000 | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | Fluoranthene | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | Butylbenzylphthalate | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | 3,3'-Dichlorobenzidine | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | Benzo(a)anthracene | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | Chrysene | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | bis(2-Ethylhexyl)phthalate | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | 4.87e+04 | n/a |
| S01M000096 | | | 2,4-Dichlorophenol | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | 4.15e+04 | n/a |
| S01M000096 | | | 2-Nitrophenol | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | 5.44e+04 | n/a |
| S01M000096 | | | 2-Chlorophenol | ug/Kg | 75.00 | ND | ND | ND | n/a | n/a | n/a | 3.07e+04 | n/a |
| S01M000096 | | | Pyrene | ug/Kg | 69.00 | ND | ND | ND | n/a | n/a | n/a | 3.80e+04 | n/a |
| S01M000096 | | | N-Nitroso-di-n-propylamine | ug/Kg | 60.00 | ND | ND | ND | n/a | n/a | n/a | 4.43e+04 | n/a |
| S01M000096 | | | 1,2,4-Trichlorobenzene SV | ug/Kg | 71.00 | ND | ND | ND | n/a | n/a | n/a | 8.67e+04 | n/a |
| S01M000096 | | | 4-Chloro-3-methylphenol | ug/Kg | 70.00 | ND | ND | ND | n/a | n/a | n/a | 6.42e+04 | n/a |
| S01M000096 | | | Acenaphthene | ug/Kg | 75.00 | ND | ND | ND | n/a | n/a | n/a | 7.63e+04 | n/a |
| S01M000096 | | | 4-Nitrophenol | ug/Kg | 22.00 | ND | ND | ND | n/a | n/a | n/a | 2.53e+05 | n/a |
| S01M000096 | | | 2,4-Dinitrotoluene | ug/Kg | 62.00 | ND | ND | ND | n/a | n/a | n/a | 4.94e+04 | n/a |
| S01M000096 | | | 2-Methylphenol | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | 5.57e+04 | n/a |
| S01M000096 | | | 3 & 4 Methylphenol Total | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | 4.78e+04 | n/a |
| S01M000096 | | | 1,4-Dichlorobenzene | ug/Kg | 68.00 | ND | ND | ND | n/a | n/a | n/a | 8.48e+04 | n/a |
| S01M000096 | | | Di-n-octylphthalate | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | 4.78e+04 | n/a |
| S01M000096 | | | Hexachloroethane | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | 9.62e+04 | n/a |
| S01M000096 | | | Naphthalene | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | 8.48e+04 | n/a |
| S01M000096 | | | Tri-n-butylphosphate | ug/Kg | n/a | ND | 5.50e+07 | 5.60e+07 | 5.55e+07 | 2.00 | -2.30e+02 | 2.22e+04 | n/a |
| S01M000096 | | | Benzo(b)fluoranthene | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | Benzo(k)fluoranthene | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | Benzo(a)pyrene | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | Indeno(1,2,3-cd)pyrene | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | Dibenz(a,h)anthracene | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | Benzo(g,h,i)perylene | ug/Kg | n/a | ND | ND | ND | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | Nitrobenzene | ug/Kg | n/a | n/a | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | Hexachlorobutadiene | ug/Kg | n/a | n/a | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000096 | | | 2,4,5-Trichlorophenol | ug/Kg | n/a | n/a | ND | n/a | n/a | n/a | n/a | n/a | n/a |

TCLP EXTRACT: TCLP EXTRACT

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000133 | | T | Mercury by CVAA (PE) with FIAS | ug/mL | 101.0 | <6.0e-5 | <1.20e-03 | <1.2e-3 | n/a | n/a | 102.3 | 1.20e-03 | n/a |

000019

TCLP Metals: TCLP Metals

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000134 | | B | Silver -ICP-Acid Digest-Liquid | ug/mL | 92.50 | <0.0100 | <5.00e-02 | <0.0500 | n/a | n/a | 94.80 | 5.00e-02 | n/a |
| S01M000134 | | B | Arsenic -ICP-Acid Digest-Liq | ug/mL | 95.90 | <0.100 | <5.00e-01 | <0.500 | n/a | n/a | 98.00 | 5.00e-01 | n/a |
| S01M000134 | | B | Barium -ICP-Acid Digest-Liquid | ug/mL | 93.00 | 0.0769 | 1.580 | 7.66e-01 | 1.173 | 69.4 | 98.40 | 2.50e-01 | n/a |
| S01M000134 | | B | Cadmium -ICP-Acid Digest-Liq | ug/mL | 95.70 | <0.00500 | <2.50e-02 | <0.0250 | n/a | n/a | 96.80 | 2.50e-02 | n/a |
| S01M000134 | | B | Chromium -ICP-Acid Digest-Liq | ug/mL | 93.40 | <0.0100 | <5.00e-02 | <0.0500 | n/a | n/a | 95.20 | 5.00e-02 | n/a |
| S01M000134 | | B | Lead -ICP-Acid Digest-Liquid | ug/mL | 92.10 | <0.100 | <5.00e-01 | <0.500 | n/a | n/a | 94.40 | 5.00e-01 | n/a |
| S01M000134 | | B | Selenium -ICP-Acid Digest-Liq | ug/mL | 95.10 | <0.100 | <5.00e-01 | <0.500 | n/a | n/a | 100.4 | 5.00e-01 | n/a |

Total Metals: Total Metals

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000132 | | A | Silver -ICP-Acid Digest | ug/g | 87.50 | <0.0100 | < 2.400 | <2.46 | n/a | n/a | 80.74 | 2.400 | n/a |
| S01M000132 | | A | Arsenic -ICP-Acid Digest | ug/g | 92.30 | <0.100 | < 24.00 | <24.6 | n/a | n/a | 91.00 | 24.00 | n/a |
| S01M000132 | | A | Barium -ICP-Acid Digest | ug/g | 90.40 | <0.0500 | < 12.00 | <12.3 | n/a | n/a | 86.28 | 12.00 | n/a |
| S01M000132 | | A | Beryllium -ICP-Acid Digest | ug/g | 95.40 | <0.00500 | < 1.200 | <1.23 | n/a | n/a | 90.82 | 1.200 | n/a |
| S01M000132 | | A | Cadmium -ICP-Acid Digest | ug/g | 91.70 | <0.00500 | < 1.200 | <1.23 | n/a | n/a | 88.64 | 1.200 | n/a |
| S01M000132 | | A | Chromium -ICP-Acid Digest | ug/g | 89.30 | <0.0100 | 15.80 | 9.880 | 12.84 | 46.1 | 85.19 | 2.400 | n/a |
| S01M000132 | | A | Copper -ICP-Acid Digest | ug/g | 93.40 | <0.0100 | 25.80 | 20.20 | 23.00 | 24.3 | 91.55 | 2.400 | n/a |
| S01M000132 | | A | Nickel -ICP-Acid Digest | ug/g | 90.70 | <0.0200 | 16.40 | 12.10 | 14.25 | 30.2 | 86.10 | 4.790 | n/a |
| S01M000132 | | A | Lead -ICP-Acid Digest | ug/g | 87.20 | <0.100 | < 24.00 | <24.6 | n/a | n/a | 87.37 | 24.00 | n/a |
| S01M000132 | | A | Antimony -ICP-Acid Digest | ug/g | 95.60 | <0.0600 | < 14.40 | <14.7 | n/a | n/a | 89.19 | 14.40 | n/a |
| S01M000132 | | A | Selenium -ICP-Acid Digest | ug/g | 91.80 | <0.100 | < 24.00 | <24.6 | n/a | n/a | 84.10 | 24.00 | n/a |

Attachment 2. Data Summary Report
276SHEX SDG1

CORE NUMBER: n/a
SEGMENT #: B11D04-A

SEGMENT PORTION: DIR1

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000140 | | | pH on Solid Samples | pH | n/a | n/a | 3.210 | n/a | n/a | n/a | n/a | 1.00e-02 | n/a |

Direct - VOA: Direct - VOA

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000092 | | | Vinyl Chloride | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | Chloromethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | Bromomethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | Chloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | Methylene Chloride | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | Acetone | ug/Kg | n/a | 110 | 5.96e+04 | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | Carbon Disulfide | ug/Kg | n/a | ND | 6.06e+02 | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | 1,1-Dichloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | 1,2-Dichloroethene (cis & tran | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | Chloroform | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | 1,2-Dichloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | 2-Butanone | ug/Kg | n/a | 6180 | 4.06e+03 | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | 1,1,1-Trichloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | Carbon Tetrachloride | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | Bromodichloromethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | 1,2-Dichloropropane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | cis-1,3-Dichloropropene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | Trichloroethene | ug/Kg | n/a | ND | 3.17e+03 | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | Dibromochloromethane | ug/Kg | n/a | ND | 4.64e+02 | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | 1,1,2-Trichloroethane | ug/Kg | n/a | ND | 7.95e+04 | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | Benzene | ug/Kg | n/a | ND | 3.55e+03 | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | trans-1,3-Dichloropropene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | Bromoform | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | 4-Methyl-2-pentanone | ug/Kg | n/a | 13200 | 9.79e+06 | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | 2-Hexanone | ug/Kg | n/a | ND | 3.36e+04 | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | Tetrachloroethene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | Toluene | ug/Kg | n/a | ND | 3.42e+03 | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | 1,1,2,2-Tetrachloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | Chlorobenzene | ug/Kg | n/a | ND | 1.12e+03 | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | Ethylbenzene | ug/Kg | n/a | ND | 5.19e+03 | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | Styrene | ug/Kg | n/a | ND | 3.26e+03 | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | Xylenes (total) | ug/Kg | n/a | 4850 | 1.09e+03 | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |
| S01M000092 | | | 1,1-Dichloroethene | ug/Kg | n/a | ND | 3.38e+03 | n/a | n/a | n/a | n/a | 2.78e+03 | n/a |

H2ODIG01: H2ODIG01

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000136 | | W | Fluoride IC SW846 | ug/g | 92.50 | 0.0200 | 34.75 | n/a | n/a | n/a | n/a | 2.317 | n/a |
| S01M000136 | | W | Chloride SW-846 | ug/g | 97.88 | <0.0170 | 17.37 | n/a | n/a | n/a | n/a | 3.282 | n/a |
| S01M000136 | | W | Nitrite IC SW846 | ug/g | 96.18 | <0.108 | < 20.85 | n/a | n/a | n/a | n/a | 20.85 | n/a |
| S01M000136 | | W | Nitrate by IC SW846 | ug/g | 99.00 | <0.139 | < 26.83 | n/a | n/a | n/a | n/a | 26.83 | n/a |
| S01M000136 | | W | Phosphate by IC SW846 | ug/g | 101.6 | <0.120 | 1.35e+02 | n/a | n/a | n/a | n/a | 23.17 | n/a |
| S01M000136 | | W | Sulfate by IC SW846 | ug/g | 100.2 | <0.138 | < 26.64 | n/a | n/a | n/a | n/a | 26.64 | n/a |

Parent: Parent

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000087 | | | Cyanide EDTA Addition | ug/g | 103.1 | <3.80E-2 | < 2.240 | n/a | n/a | n/a | n/a | 2.240 | n/a |
| S01M000087 | | | Volume % Settled Solids | % | n/a | n/a | 95.00 | n/a | n/a | n/a | n/a | 1.00e-01 | n/a |
| S01M000087 | | | Color of Sample | | n/a | n/a | black | n/a | n/a | n/a | n/a | n/a | n/a |

SVOA/PCB: SVOA/PCB

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000097 | | | Aroclor-1016 by SW-846 8082 | ug/Kg | n/a | <50 | <4.62e+02 | n/a | n/a | n/a | n/a | 462.7 | n/a |
| S01M000097 | | | Aroclor-1221 by SW-846 8082 | ug/Kg | n/a | <150 | <1.39e+03 | n/a | n/a | n/a | n/a | 1.39e+03 | n/a |
| S01M000097 | | | Aroclor-1232 by SW-846 8082 | ug/Kg | n/a | <140 | <1.29e+03 | n/a | n/a | n/a | n/a | 1.29e+03 | n/a |
| S01M000097 | | | Aroclor-1242 by SW-846 8082 | ug/Kg | n/a | <80 | <7.39e+02 | n/a | n/a | n/a | n/a | 739.4 | n/a |
| S01M000097 | | | Aroclor-1248 by SW-846 8082 | ug/Kg | n/a | <40 | <3.70e+02 | n/a | n/a | n/a | n/a | 369.7 | n/a |
| S01M000097 | | | Aroclor-1254 by SW-846 8082 | ug/Kg | 98.40 | <40 | 7.08e+03 | n/a | n/a | n/a | n/a | 200.0 | n/a |
| S01M000097 | | | Aroclor-1260 by SW-846 8082 | ug/Kg | n/a | <50 | <4.62e+02 | n/a | n/a | n/a | n/a | 462.1 | n/a |
| S01M000097 | | | Aroclor-1262 by SW-846 8082 | ug/Kg | n/a | <40 | <3.70e+02 | n/a | n/a | n/a | n/a | 369.7 | n/a |
| S01M000097 | | | bis-(2-Chloroethyl) ether | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | 1,3-Dichlorobenzene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | 1,2-Dichlorobenzene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | 2,2'-oxybis(1-Chloropropane) | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | Isophorone | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | 2,4-Dimethylphenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | bis(2-Chloroethoxy)methane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | 4-Chloroaniline | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | 2-Methylnaphthalene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | Hexachlorocyclopentadiene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | 2,4,6-Trichlorophenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | 2-Chloronaphthalene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | 2-Nitroaniline | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | Dimethylphthalate | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | Acenaphthylene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | 2,6-Dinitrotoluene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | 3-Nitroaniline | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | 2,4-Dinitrophenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | Dibenzofuran | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | Diethylphthalate | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | 4-Chlorophenyl-phenylether | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | Fluorene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | 4-Nitroaniline | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | 4,6-Dinitro-2-methylphenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000097 | | | N-Nitrosodiphenylamine | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | 4-Bromopnhenyl-phenylether | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | Hexachlorobenzene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | Pentachlorophenol | ug/Kg | 25.00 | ND | ND | n/a | n/a | n/a | n/a | 3.98e+05 | n/a |
| S01M000097 | | | Phenol | ug/Kg | 75.00 | ND | ND | n/a | n/a | n/a | n/a | 6.33e+04 | n/a |
| S01M000097 | | | Phenanthrene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | Anthracene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | Di-n-butylphthalate | ug/Kg | n/a | 7600 | 1.20e+05 | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | Fluoranthene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | Butylbenzylphthalate | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | 3,3'-Dichlorobenzidine | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | Benzo(a)anthracene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | Chrysene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | bis(2-Ethylhexyl)phthalate | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.56e+04 | n/a |
| S01M000097 | | | 2,4-Dichlorophenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 7.28e+04 | n/a |
| S01M000097 | | | 2-Nitrophenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 9.56e+04 | n/a |
| S01M000097 | | | 2-Chlorophenol | ug/Kg | 70.00 | ND | ND | n/a | n/a | n/a | n/a | 5.39e+04 | n/a |
| S01M000097 | | | Pyrene | ug/Kg | 83.00 | ND | ND | n/a | n/a | n/a | n/a | 6.67e+04 | n/a |
| S01M000097 | | | N-Nitroso-di-n-propylamine | ug/Kg | 84.00 | ND | ND | n/a | n/a | n/a | n/a | 7.78e+04 | n/a |
| S01M000097 | | | 1,2,4-Trichlorobenzene SV | ug/Kg | 88.00 | ND | ND | n/a | n/a | n/a | n/a | 1.52e+05 | n/a |
| S01M000097 | | | 4-Chloro-3-methylphenol | ug/Kg | 75.00 | ND | ND | n/a | n/a | n/a | n/a | 1.13e+05 | n/a |
| S01M000097 | | | Acenaphthene | ug/Kg | 86.00 | ND | ND | n/a | n/a | n/a | n/a | 1.34e+05 | n/a |
| S01M000097 | | | 4-Nitrophenol | ug/Kg | 26.00 | ND | ND | n/a | n/a | n/a | n/a | 4.44e+05 | n/a |
| S01M000097 | | | 2,4-Dinitrotoluene | ug/Kg | 65.00 | ND | ND | n/a | n/a | n/a | n/a | 8.67e+04 | n/a |
| S01M000097 | | | 2-Methylphenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 9.78e+04 | n/a |
| S01M000097 | | | 3 & 4 Methylphenol Total | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.39e+04 | n/a |
| S01M000097 | | | 1,4-Dichlorobenzene | ug/Kg | 82.00 | ND | ND | n/a | n/a | n/a | n/a | 1.49e+05 | n/a |
| S01M000097 | | | Di-n-octylphthalate | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.39e+04 | n/a |
| S01M000097 | | | Hexachloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 1.69e+05 | n/a |
| S01M000097 | | | Naphthalene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 1.49e+05 | n/a |
| S01M000097 | | | Tri-n-butylphosphate | ug/Kg | n/a | ND | 4.10e+07 | n/a | n/a | n/a | n/a | 3.89e+04 | n/a |
| S01M000097 | | | Benzo(b)fluoranthene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | Benzo(k)fluoranthene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | Benzo(a)pyrene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | Indeno(1,2,3-cd)pyrene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | Dibenz(a,h)anthracene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | Benzo(g,h,i)perylene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | Nitrobenzene | ug/Kg | n/a | n/a | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | Hexachlorobutadiene | ug/Kg | n/a | n/a | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000097 | | | 2,4,5-Trichlorophenol | ug/Kg | n/a | n/a | ND | n/a | n/a | n/a | n/a | n/a | n/a |

TCLP EXTRACT: TCLP EXTRACT

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000138 | | T | Mercury by CVAA (PE) with FIAS | ug/mL | 101.0 | <6.0e-5 | <1.20e-03 | n/a | n/a | n/a | n/a | 1.20e-03 | n/a |

000016

TCLP Metals: TCLP Metals

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000139 | | B | Silver -ICP-Acid Digest-Liquid | ug/mL | 92.50 | <0.0100 | <5.00e-02 | n/a | n/a | n/a | n/a | 5.00e-02 | n/a |
| S01M000139 | | B | Arsenic -ICP-Acid Digest-Liq | ug/mL | 95.90 | <0.100 | <5.00e-01 | n/a | n/a | n/a | n/a | 5.00e-01 | n/a |
| S01M000139 | | B | Barium -ICP-Acid Digest-Liquid | ug/mL | 93.00 | 0.0769 | 6.59e-01 | n/a | n/a | n/a | n/a | 2.50e-01 | n/a |
| S01M000139 | | B | Cadmium -ICP-Acid Digest-Liq | ug/mL | 95.70 | <0.00500 | <2.50e-02 | n/a | n/a | n/a | n/a | 2.50e-02 | n/a |
| S01M000139 | | B | Chromium -ICP-Acid Digest-Liq | ug/mL | 93.40 | <0.0100 | <5.00e-02 | n/a | n/a | n/a | n/a | 5.00e-02 | n/a |
| S01M000139 | | B | Lead -ICP-Acid Digest-Liquid | ug/mL | 92.10 | <0.100 | <5.00e-01 | n/a | n/a | n/a | n/a | 5.00e-01 | n/a |
| S01M000139 | | B | Selenium -ICP-Acid Digest-Liq | ug/mL | 95.10 | <0.100 | <5.00e-01 | n/a | n/a | n/a | n/a | 5.00e-01 | n/a |

Total Metals: Total Metals

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000137 | | A | Silver -ICP-Acid Digest | ug/g | 87.50 | <0.0100 | < 2.360 | n/a | n/a | n/a | n/a | 2.360 | n/a |
| S01M000137 | | A | Arsenic -ICP-Acid Digest | ug/g | 92.30 | <0.100 | < 23.60 | n/a | n/a | n/a | n/a | 23.60 | n/a |
| S01M000137 | | A | Barium -ICP-Acid Digest | ug/g | 90.40 | <0.0500 | < 11.80 | n/a | n/a | n/a | n/a | 11.80 | n/a |
| S01M000137 | | A | Beryllium -ICP-Acid Digest | ug/g | 95.40 | <0.00500 | < 1.180 | n/a | n/a | n/a | n/a | 1.180 | n/a |
| S01M000137 | | A | Cadmium -ICP-Acid Digest | ug/g | 91.70 | <0.00500 | < 1.180 | n/a | n/a | n/a | n/a | 1.180 | n/a |
| S01M000137 | | A | Chromium -ICP-Acid Digest | ug/g | 89.30 | <0.0100 | 9.260 | n/a | n/a | n/a | n/a | 2.360 | n/a |
| S01M000137 | | A | Copper -ICP-Acid Digest | ug/g | 93.40 | <0.0100 | 18.30 | n/a | n/a | n/a | n/a | 2.360 | n/a |
| S01M000137 | | A | Nickel -ICP-Acid Digest | ug/g | 90.70 | <0.0200 | 11.10 | n/a | n/a | n/a | n/a | 4.720 | n/a |
| S01M000137 | | A | Lead -ICP-Acid Digest | ug/g | 87.20 | <0.100 | < 23.60 | n/a | n/a | n/a | n/a | 23.60 | n/a |
| S01M000137 | | A | Antimony -ICP-Acid Digest | ug/g | 95.60 | <0.0600 | < 14.20 | n/a | n/a | n/a | n/a | 14.20 | n/a |
| S01M000137 | | A | Selenium -ICP-Acid Digest | ug/g | 91.80 | <0.100 | < 23.60 | n/a | n/a | n/a | n/a | 23.60 | n/a |

Attachment 2. Data Summary Report
276SHEX SDG1

CORE NUMBER: n/a
SEGMENT #: B11D05-A

SEGMENT PORTION: DIR1

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000145 | | | pH on Solid Samples | pH | n/a | n/a | 4.810 | n/a | n/a | n/a | n/a | 1.00e-02 | n/a |

Direct - VOA: Direct - VOA

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000093 | | | Vinyl Chloride | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | Chloromethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | Bromomethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | Chloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | Methylene Chloride | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | Acetone | ug/Kg | n/a | 110 | 1.53e+05 | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | Carbon Disulfide | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | 1,1-Dichloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | 1,2-Dichloroethene (cis & tran | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | Chloroform | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | 1,2-Dichloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | 2-Butanone | ug/Kg | n/a | 6180 | 4.46e+03 | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | 1,1,1-Trichloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | Carbon Tetrachloride | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | Bromodichloromethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | 1,2-Dichloropropane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | cis-1,3-Dichloropropene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | Trichloroethene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | Dibromochloromethane | ug/Kg | n/a | ND | 3.75e+02 | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | 1,1,2-Trichloroethane | ug/Kg | n/a | ND | 5.70e+04 | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | Benzene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | trans-1,3-Dichloropropene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | Bromoform | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | 4-Methyl-2-pentanone | ug/Kg | n/a | 13200 | 1.37e+07 | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | 2-Hexanone | ug/Kg | n/a | ND | 2.22e+04 | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | Tetrachloroethene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | Toluene | ug/Kg | n/a | ND | 1.63e+03 | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | 1,1,2,2-Tetrachloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | Chlorobenzene | ug/Kg | n/a | ND | 71.40 | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | Ethylbenzene | ug/Kg | n/a | ND | 3.89e+03 | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | Styrene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | Xylenes (total) | ug/Kg | n/a | 4850 | 1.19e+03 | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |
| S01M000093 | | | 1,1-Dichloroethene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.12e+03 | n/a |

H2ODIG01: H2ODIG01

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000141 | | W | Fluoride IC SW846 | ug/g | 92.50 | 0.0200 | 3.65e+02 | n/a | n/a | n/a | n/a | 2.344 | n/a |
| S01M000141 | | W | Chloride SW-846 | ug/g | 97.88 | <0.0170 | 7.54e+02 | n/a | n/a | n/a | n/a | 3.320 | n/a |
| S01M000141 | | W | Nitrite IC SW846 | ug/g | 96.18 | <0.108 | < 21.09 | n/a | n/a | n/a | n/a | 21.09 | n/a |
| S01M000141 | | W | Nitrate by IC SW846 | ug/g | 99.00 | <0.139 | < 27.15 | n/a | n/a | n/a | n/a | 27.15 | n/a |
| S01M000141 | | W | Phosphate by IC SW846 | ug/g | 101.6 | <0.120 | < 23.44 | n/a | n/a | n/a | n/a | 23.44 | n/a |
| S01M000141 | | W | Sulfate by IC SW846 | ug/g | 100.2 | <0.138 | < 26.95 | n/a | n/a | n/a | n/a | 26.95 | n/a |

Parent: Parent

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000088 | | | Cyanide EDTA Addition | ug/g | 103.1 | <3.80E-2 | < 2.400 | n/a | n/a | n/a | n/a | 2.400 | n/a |
| S01M000088 | | | Volume % Settled Solids | % | n/a | n/a | 90.00 | n/a | n/a | n/a | n/a | 1.00e-01 | n/a |
| S01M000088 | | | Color of Sample | | n/a | n/a | black | n/a | n/a | n/a | n/a | n/a | n/a |

SVOA/PCB: SVOA/PCB

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000098 | | | Aroclor-1016 by SW-846 8082 | ug/Kg | n/a | <50 | <4.96e+02 | n/a | n/a | n/a | n/a | 495.5 | n/a |
| S01M000098 | | | Aroclor-1221 by SW-846 8082 | ug/Kg | n/a | <150 | <1.49e+03 | n/a | n/a | n/a | n/a | 1.49e+03 | n/a |
| S01M000098 | | | Aroclor-1232 by SW-846 8082 | ug/Kg | n/a | <140 | <1.39e+03 | n/a | n/a | n/a | n/a | 1.39e+03 | n/a |
| S01M000098 | | | Aroclor-1242 by SW-846 8082 | ug/Kg | n/a | <80 | <7.93e+02 | n/a | n/a | n/a | n/a | 792.9 | n/a |
| S01M000098 | | | Aroclor-1248 by SW-846 8082 | ug/Kg | n/a | <40 | <3.96e+02 | n/a | n/a | n/a | n/a | 396.4 | n/a |
| S01M000098 | | | Aroclor-1254 by SW-846 8082 | ug/Kg | 91.83 | <40 | 3.27e+03 | n/a | n/a | n/a | n/a | 200.0 | n/a |
| S01M000098 | | | Aroclor-1260 by SW-846 8082 | ug/Kg | n/a | <50 | <4.96e+02 | n/a | n/a | n/a | n/a | 495.5 | n/a |
| S01M000098 | | | Aroclor-1262 by SW-846 8082 | ug/Kg | n/a | <40 | <3.96e+02 | n/a | n/a | n/a | n/a | 396.4 | n/a |
| S01M000098 | | | bis-(2-Chloroethyl) ether | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | 1,3-Dichlorobenzene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | 1,2-Dichlorobenzene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | 2,2'-oxybis(1-Chloropropane) | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | Isophorone | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | 2,4-Dimethylphenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | bis(2-Chloroethoxy)methane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | 4-Chloroaniline | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | 2-Methylnaphthalene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | Hexachlorocyclopentadiene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | 2,4,6-Trichlorophenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | 2-Chloronaphthalene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | 2-Nitroaniline | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | Dimethylphthalate | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | Acenaphthylene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | 2,6-Dinitrotoluene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | 3-Nitroaniline | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | 2,4-Dinitrophenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | Dibenzofuran | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | Diethylphthalate | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | 4-Chlorophenyl-phenylether | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | Fluorene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | 4-Nitroaniline | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | 4,6-Dinitro-2-methylphenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |

000010

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000098 | | | N-Nitrosodiphenylamine | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | 4-Bromopnhenyl-phenylether | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | Hexachlorobenzene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | Pentachlorophenol | ug/Kg | 25.00 | ND | ND | n/a | n/a | n/a | n/a | 6.88e+05 | n/a |
| S01M000098 | | | Phenol | ug/Kg | 75.00 | ND | ND | n/a | n/a | n/a | n/a | 1.10e+05 | n/a |
| S01M000098 | | | Phenanthrene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | Anthracene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | Di-n-butylphthalate | ug/Kg | n/a | 7600 | 2.60e+05 | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | Fluoranthene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | Butylbenzylphthalate | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | 3,3'-Dichlorobenzidine | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | Benzo(a)anthracene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | Chrysene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | bis(2-Ethylhexyl)phthalate | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 1.48e+05 | n/a |
| S01M000098 | | | 2,4-Dichlorophenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 1.26e+05 | n/a |
| S01M000098 | | | 2-Nitrophenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 1.65e+05 | n/a |
| S01M000098 | | | 2-Chlorophenol | ug/Kg | 70.00 | ND | ND | n/a | n/a | n/a | n/a | 9.33e+04 | n/a |
| S01M000098 | | | Pyrene | ug/Kg | 83.00 | ND | ND | n/a | n/a | n/a | n/a | 1.15e+05 | n/a |
| S01M000098 | | | N-Nitroso-di-n-propylamine | ug/Kg | 84.00 | ND | ND | n/a | n/a | n/a | n/a | 1.35e+05 | n/a |
| S01M000098 | | | 1,2,4-Trichlorobenzene SV | ug/Kg | 88.00 | ND | ND | n/a | n/a | n/a | n/a | 2.63e+05 | n/a |
| S01M000098 | | | 4-Chloro-3-methylphenol | ug/Kg | 75.00 | ND | ND | n/a | n/a | n/a | n/a | 1.95e+05 | n/a |
| S01M000098 | | | Acenaphthene | ug/Kg | 86.00 | ND | ND | n/a | n/a | n/a | n/a | 2.32e+05 | n/a |
| S01M000098 | | | 4-Nitrophenol | ug/Kg | 26.00 | ND | ND | n/a | n/a | n/a | n/a | 7.69e+05 | n/a |
| S01M000098 | | | 2,4-Dinitrotoluene | ug/Kg | 65.00 | ND | ND | n/a | n/a | n/a | n/a | 1.50e+05 | n/a |
| S01M000098 | | | 2-Methylphenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 1.69e+05 | n/a |
| S01M000098 | | | 3 & 4 Methylphenol Total | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 1.45e+05 | n/a |
| S01M000098 | | | 1,4-Dichlorobenzene | ug/Kg | 82.00 | ND | ND | n/a | n/a | n/a | n/a | 2.58e+05 | n/a |
| S01M000098 | | | Di-n-octylphthalate | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 1.45e+05 | n/a |
| S01M000098 | | | Hexachloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 2.92e+05 | n/a |
| S01M000098 | | | Naphthalene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 2.58e+05 | n/a |
| S01M000098 | | | Tri-n-butylphosphate | ug/Kg | n/a | ND | 1.10e+07 | n/a | n/a | n/a | n/a | 6.73e+04 | n/a |
| S01M000098 | | | Benzo(b)fluoranthene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | Benzo(k)fluoranthene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | Benzo(a)pyrene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | Indeno(1,2,3-cd)pyrene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | Dibenz(a,h)anthracene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | Benzo(g,h,i)perylene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | Nitrobenzene | ug/Kg | n/a | n/a | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | Hexachlorobutadiene | ug/Kg | n/a | n/a | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000098 | | | 2,4,5-Trichlorophenol | ug/Kg | n/a | n/a | ND | n/a | n/a | n/a | n/a | n/a | n/a |

TCLP EXTRACT: TCLP EXTRACT

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000143 | | T | Mercury by CVAA (PE) with FIAS | ug/mL | 101.0 | <6.0e-5 | <1.20e-03 | n/a | n/a | n/a | n/a | 1.20e-03 | n/a |

000020

TCLP Metals: TCLP Metals

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000144 | | B | Silver -ICP-Acid Digest-Liquid | ug/mL | 92.50 | <0.0100 | <5.00e-02 | n/a | n/a | n/a | n/a | 5.00e-02 | n/a |
| S01M000144 | | B | Arsenic -ICP-Acid Digest-Liq | ug/mL | 97.60 | <0.100 | <5.00e-01 | n/a | n/a | n/a | n/a | 5.00e-01 | n/a |
| S01M000144 | | B | Barium -ICP-Acid Digest-Liquid | ug/mL | 93.00 | 0.139 | 1.320 | n/a | n/a | n/a | n/a | 2.50e-01 | n/a |
| S01M000144 | | B | Cadmium -ICP-Acid Digest-Liq | ug/mL | 97.20 | <0.00500 | <2.50e-02 | n/a | n/a | n/a | n/a | 2.50e-02 | n/a |
| S01M000144 | | B | Chromium -ICP-Acid Digest-Liq | ug/mL | 94.70 | <0.0100 | <5.00e-02 | n/a | n/a | n/a | n/a | 5.00e-02 | n/a |
| S01M000144 | | B | Lead -ICP-Acid Digest-Liquid | ug/mL | 93.00 | <0.100 | <5.00e-01 | n/a | n/a | n/a | n/a | 5.00e-01 | n/a |
| S01M000144 | | B | Selenium -ICP-Acid Digest-Liq | ug/mL | 96.80 | <0.100 | <5.00e-01 | n/a | n/a | n/a | n/a | 5.00e-01 | n/a |

Total Metals: Total Metals

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000142 | | A | Silver -ICP-Acid Digest | ug/g | 87.50 | <0.0100 | < 4.880 | n/a | n/a | n/a | n/a | 4.880 | n/a |
| S01M000142 | | A | Arsenic -ICP-Acid Digest | ug/g | 93.60 | <0.100 | < 48.80 | n/a | n/a | n/a | n/a | 48.80 | n/a |
| S01M000142 | | A | Barium -ICP-Acid Digest | ug/g | 89.20 | <0.0500 | < 24.40 | n/a | n/a | n/a | n/a | 24.40 | n/a |
| S01M000142 | | A | Beryllium -ICP-Acid Digest | ug/g | 94.50 | <0.00500 | < 2.440 | n/a | n/a | n/a | n/a | 2.440 | n/a |
| S01M000142 | | A | Cadmium -ICP-Acid Digest | ug/g | 91.70 | <0.00500 | < 2.440 | n/a | n/a | n/a | n/a | 2.440 | n/a |
| S01M000142 | | A | Chromium -ICP-Acid Digest | ug/g | 88.90 | <0.0100 | 15.90 | n/a | n/a | n/a | n/a | 4.880 | n/a |
| S01M000142 | | A | Copper -ICP-Acid Digest | ug/g | 93.20 | <0.0100 | 29.80 | n/a | n/a | n/a | n/a | 4.880 | n/a |
| S01M000142 | | A | Nickel -ICP-Acid Digest | ug/g | 89.80 | <0.0200 | 53.20 | n/a | n/a | n/a | n/a | 9.760 | n/a |
| S01M000142 | | A | Lead -ICP-Acid Digest | ug/g | 87.70 | <0.100 | 53.80 | n/a | n/a | n/a | n/a | 48.80 | n/a |
| S01M000142 | | A | Antimony -ICP-Acid Digest | ug/g | 95.80 | <0.0600 | < 29.30 | n/a | n/a | n/a | n/a | 29.30 | n/a |
| S01M000142 | | A | Selenium -ICP-Acid Digest | ug/g | 92.80 | <0.100 | < 48.80 | n/a | n/a | n/a | n/a | 48.80 | n/a |

**Attachment 2. Data Summary Report**
**276SHEX SDG1**

CORE NUMBER: n/a
SEGMENT #: B11D06-A

SEGMENT PORTION: DIR1

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000150 | | | pH on Solid Samples | pH | n/a | n/a | 4.110 | n/a | n/a | n/a | n/a | 1.00e-02 | n/a |

Direct - VOA: Direct - VOA

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000094 | | | Vinyl Chloride | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | Chloromethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | Bromomethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | Chloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | Methylene Chloride | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | Acetone | ug/Kg | n/a | 110 | 5.22e+04 | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | Carbon Disulfide | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | 1,1-Dichloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | 1,2-Dichloroethene (cis & tran | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | Chloroform | ug/Kg | n/a | ND | 4.59e+03 | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | 1,2-Dichloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | 2-Butanone | ug/Kg | n/a | 6180 | 3.70e+03 | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | 1,1,1-Trichloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | Carbon Tetrachloride | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | Bromodichloromethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | 1,2-Dichloropropane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | cis-1,3-Dichloropropene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | Trichloroethene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | Dibromochloromethane | ug/Kg | n/a | ND | 5.47e+02 | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | 1,1,2-Trichloroethane | ug/Kg | n/a | ND | 5.49e+04 | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | Benzene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | trans-1,3-Dichloropropene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | Bromoform | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | 4-Methyl-2-pentanone | ug/Kg | n/a | 13200 | 1.82e+07 | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | 2-Hexanone | ug/Kg | n/a | ND | 3.34e+04 | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | Tetrachloroethene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | Toluene | ug/Kg | n/a | ND | 8.44e+03 | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | 1,1,2,2-Tetrachloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | Chlorobenzene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | Ethylbenzene | ug/Kg | n/a | ND | 5.81e+03 | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | Styrene | ug/Kg | n/a | ND | 4.27e+03 | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | Xylenes (total) | ug/Kg | n/a | 4850 | 6.19e+02 | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |
| S01M000094 | | | 1,1-Dichloroethene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 3.57e+03 | n/a |

H20DIG01: H20DIG01

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000146 | | W | Fluoride IC SW846 | ug/g | 92.50 | 0.0200 | 1.60e+02 | n/a | n/a | n/a | n/a | 2.139 | n/a |
| S01M000146 | | W | Chloride SW-846 | ug/g | 97.88 | <0.0170 | 44.56 | n/a | n/a | n/a | n/a | 3.030 | n/a |
| S01M000146 | | W | Nitrite IC SW846 | ug/g | 96.18 | <0.108 | < 19.25 | n/a | n/a | n/a | n/a | 19.25 | n/a |
| S01M000146 | | W | Nitrate by IC SW846 | ug/g | 99.00 | <0.139 | < 24.78 | n/a | n/a | n/a | n/a | 24.78 | n/a |
| S01M000146 | | W | Phosphate by IC SW846 | ug/g | 101.6 | <0.120 | 1.64e+02 | n/a | n/a | n/a | n/a | 21.39 | n/a |
| S01M000146 | | W | Sulfate by IC SW846 | ug/g | 100.2 | <0.138 | < 24.60 | n/a | n/a | n/a | n/a | 24.60 | n/a |

Parent: Parent

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000089 | | | Cyanide EDTA Addition | ug/g | 103.1 | <3.80E-2 | < 2.550 | n/a | n/a | n/a | n/a | 2.550 | n/a |
| S01M000089 | | | Volume % Settled Solids | % | n/a | n/a | 95.00 | n/a | n/a | n/a | n/a | 1.00e-01 | n/a |
| S01M000089 | | | Color of Sample | | n/a | n/a | black | n/a | n/a | n/a | n/a | n/a | n/a |

SVOA/PCB: SVOA/PCB

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000099 | | | Aroclor-1016 by SW-846 8082 | ug/Kg | n/a | <50 | <4.89e+02 | n/a | n/a | n/a | n/a | 488.8 | n/a |
| S01M000099 | | | Aroclor-1221 by SW-846 8082 | ug/Kg | n/a | <150 | <1.47e+03 | n/a | n/a | n/a | n/a | 1.47e+03 | n/a |
| S01M000099 | | | Aroclor-1232 by SW-846 8082 | ug/Kg | n/a | <140 | <1.37e+03 | n/a | n/a | n/a | n/a | 1.37e+03 | n/a |
| S01M000099 | | | Aroclor-1242 by SW-846 8082 | ug/Kg | n/a | <80 | <7.82e+02 | n/a | n/a | n/a | n/a | 782.0 | n/a |
| S01M000099 | | | Aroclor-1248 by SW-846 8082 | ug/Kg | n/a | <40 | <3.91e+02 | n/a | n/a | n/a | n/a | 391.0 | n/a |
| S01M000099 | | | Aroclor-1254 by SW-846 8082 | ug/Kg | 91.83 | <40 | 4.42e+03 | n/a | n/a | n/a | n/a | 200.0 | n/a |
| S01M000099 | | | Aroclor-1260 by SW-846 8082 | ug/Kg | n/a | <50 | <4.89e+02 | n/a | n/a | n/a | n/a | 488.8 | n/a |
| S01M000099 | | | Aroclor-1262 by SW-846 8082 | ug/Kg | n/a | <40 | <3.91e+02 | n/a | n/a | n/a | n/a | 391.0 | n/a |
| S01M000099 | | | bis-(2-Chloroethyl) ether | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | 1,3-Dichlorobenzene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | 1,2-Dichlorobenzene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | 2,2'-oxybis(1-Chloropropane) | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | Isophorone | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | 2,4-Dimethylphenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | bis(2-Chloroethoxy)methane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | 4-Chloroaniline | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | 2-Methylnaphthalene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | Hexachlorocyclopentadiene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | 2,4,6-Trichlorophenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | 2-Chloronaphthalene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | 2-Nitroaniline | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | Dimethylphthalate | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | Acenaphthylene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | 2,6-Dinitrotoluene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | 3-Nitroaniline | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | 2,4-Dinitrophenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | Dibenzofuran | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | Diethylphthalate | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | 4-Chlorophenyl-phenylether | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | Fluorene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | 4-Nitroaniline | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | 4,6-Dinitro-2-methylphenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000099 | | | N-Nitrosodiphenylamine | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | 4-Bromopnhenyl-phenylether | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | Hexachlorobenzene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | Pentachlorophenol | ug/Kg | 25.00 | ND | ND | n/a | n/a | n/a | n/a | 5.11e+06 | n/a |
| S01M000099 | | | Phenol | ug/Kg | 75.00 | ND | ND | n/a | n/a | n/a | n/a | 8.14e+05 | n/a |
| S01M000099 | | | Phenanthrene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | Anthracene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | Di-n-butylphthalate | ug/Kg | n/a | 7600 | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | Fluoranthene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | Butylbenzylphthalate | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | 3,3'-Dichlorobenzidine | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | Benzo(a)anthracene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | Chrysene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | bis(2-Ethylhexyl)phthalate | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 1.10e+06 | n/a |
| S01M000099 | | | 2,4-Dichlorophenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 9.36e+05 | n/a |
| S01M000099 | | | 2-Nitrophenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 1.23e+06 | n/a |
| S01M000099 | | | 2-Chlorophenol | ug/Kg | 70.00 | ND | ND | n/a | n/a | n/a | n/a | 6.93e+05 | n/a |
| S01M000099 | | | Pyrene | ug/Kg | 83.00 | ND | ND | n/a | n/a | n/a | n/a | 8.57e+05 | n/a |
| S01M000099 | | | N-Nitroso-di-n-propylamine | ug/Kg | 84.00 | ND | ND | n/a | n/a | n/a | n/a | 1.00e+06 | n/a |
| S01M000099 | | | 1,2,4-Trichlorobenzene SV | ug/Kg | 88.00 | ND | ND | n/a | n/a | n/a | n/a | 1.96e+06 | n/a |
| S01M000099 | | | 4-Chloro-3-methylphenol | ug/Kg | 75.00 | ND | ND | n/a | n/a | n/a | n/a | 1.45e+06 | n/a |
| S01M000099 | | | Acenaphthene | ug/Kg | 86.00 | ND | ND | n/a | n/a | n/a | n/a | 1.72e+06 | n/a |
| S01M000099 | | | 4-Nitrophenol | ug/Kg | 26.00 | ND | ND | n/a | n/a | n/a | n/a | 5.71e+06 | n/a |
| S01M000099 | | | 2,4-Dinitrotoluene | ug/Kg | 65.00 | ND | ND | n/a | n/a | n/a | n/a | 1.11e+06 | n/a |
| S01M000099 | | | 2-Methylphenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 1.26e+06 | n/a |
| S01M000099 | | | 3 & 4 Methylphenol Total | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 1.08e+06 | n/a |
| S01M000099 | | | 1,4-Dichlorobenzene | ug/Kg | 82.00 | ND | ND | n/a | n/a | n/a | n/a | 1.91e+06 | n/a |
| S01M000099 | | | Di-n-octylphthalate | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 1.08e+06 | n/a |
| S01M000099 | | | Hexachloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 2.17e+06 | n/a |
| S01M000099 | | | Naphthalene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 1.91e+06 | n/a |
| S01M000099 | | | Tri-n-butylphosphate | ug/Kg | n/a | ND | 6.50e+07 | n/a | n/a | n/a | n/a | 5.00e+05 | n/a |
| S01M000099 | | | Benzo(b)fluoranthene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | Benzo(k)fluoranthene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | Benzo(a)pyrene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | Indeno(1,2,3-cd)pyrene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | Dibenz(a,h)anthracene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | Benzo(g,h,i)perylene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | Nitrobenzene | ug/Kg | n/a | n/a | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | Hexachlorobutadiene | ug/Kg | n/a | n/a | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000099 | | | 2,4,5-Trichlorophenol | ug/Kg | n/a | n/a | ND | n/a | n/a | n/a | n/a | n/a | n/a |

TCLP EXTRACT: TCLP EXTRACT

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000148 | | T | Mercury by CVAA (PE) with FIAS | ug/mL | 101.0 | <6.0e-5 | <1.20e-03 | n/a | n/a | n/a | n/a | 1.20e-03 | n/a |

TCLP Metals: TCLP Metals

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000149 | | B | Silver -ICP-Acid Digest-Liquid | ug/mL | 92.50 | <0.0100 | <5.00e-02 | n/a | n/a | n/a | n/a | 5.00e-02 | n/a |
| S01M000149 | | B | Arsenic -ICP-Acid Digest-Liq | ug/mL | 97.60 | <0.100 | <5.00e-01 | n/a | n/a | n/a | n/a | 5.00e-01 | n/a |
| S01M000149 | | B | Barium -ICP-Acid Digest-Liquid | ug/mL | 93.00 | 0.139 | 1.370 | n/a | n/a | n/a | n/a | 2.50e-01 | n/a |
| S01M000149 | | B | Cadmium -ICP-Acid Digest-Liq | ug/mL | 97.20 | <0.00500 | <2.50e-02 | n/a | n/a | n/a | n/a | 2.50e-02 | n/a |
| S01M000149 | | B | Chromium -ICP-Acid Digest-Liq | ug/mL | 94.70 | <0.0100 | <5.00e-02 | n/a | n/a | n/a | n/a | 5.00e-02 | n/a |
| S01M000149 | | B | Lead -ICP-Acid Digest-Liquid | ug/mL | 93.00 | <0.100 | <5.00e-01 | n/a | n/a | n/a | n/a | 5.00e-01 | n/a |
| S01M000149 | | B | Selenium -ICP-Acid Digest-Liq | ug/mL | 96.80 | <0.100 | <5.00e-01 | n/a | n/a | n/a | n/a | 5.00e-01 | n/a |

Total Metals: Total Metals

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000147 | | A | Silver -ICP-Acid Digest | ug/g | 87.50 | <0.0100 | < 2.380 | n/a | n/a | n/a | n/a | 2.380 | n/a |
| S01M000147 | | A | Arsenic -ICP-Acid Digest | ug/g | 93.60 | <0.100 | < 23.80 | n/a | n/a | n/a | n/a | 23.80 | n/a |
| S01M000147 | | A | Barium -ICP-Acid Digest | ug/g | 89.20 | <0.0500 | < 11.90 | n/a | n/a | n/a | n/a | 11.90 | n/a |
| S01M000147 | | A | Beryllium -ICP-Acid Digest | ug/g | 94.50 | <0.00500 | < 1.190 | n/a | n/a | n/a | n/a | 1.190 | n/a |
| S01M000147 | | A | Cadmium -ICP-Acid Digest | ug/g | 91.70 | <0.00500 | < 1.190 | n/a | n/a | n/a | n/a | 1.190 | n/a |
| S01M000147 | | A | Chromium -ICP-Acid Digest | ug/g | 88.90 | <0.0100 | 7.880 | n/a | n/a | n/a | n/a | 2.380 | n/a |
| S01M000147 | | A | Copper -ICP-Acid Digest | ug/g | 93.20 | <0.0100 | 12.10 | n/a | n/a | n/a | n/a | 2.380 | n/a |
| S01M000147 | | A | Nickel -ICP-Acid Digest | ug/g | 89.80 | <0.0200 | 5.990 | n/a | n/a | n/a | n/a | 4.770 | n/a |
| S01M000147 | | A | Lead -ICP-Acid Digest | ug/g | 87.70 | <0.100 | < 23.80 | n/a | n/a | n/a | n/a | 23.80 | n/a |
| S01M000147 | | A | Antimony -ICP-Acid Digest | ug/g | 95.80 | <0.0600 | < 14.30 | n/a | n/a | n/a | n/a | 14.30 | n/a |
| S01M000147 | | A | Selenium -ICP-Acid Digest | ug/g | 92.80 | <0.100 | < 23.80 | n/a | n/a | n/a | n/a | 23.80 | n/a |

000025

**Attachment 2. Data Summary Report**
**276SHEX SDG1**

CORE NUMBER: n/a
SEGMENT #: B11D07-A

SEGMENT PORTION: DIR1

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000155 | | | pH on Solid Samples | pH | n/a | n/a | 4.590 | n/a | n/a | n/a | n/a | 1.00e-02 | n/a |

Direct - VOA: Direct - VOA

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000095 | | | Vinyl Chloride | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | Chloromethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | Bromomethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | Chloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | Methylene Chloride | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | Acetone | ug/Kg | n/a | 110 | 5.92e+04 | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | Carbon Disulfide | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | 1,1-Dichloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | 1,2-Dichloroethene (cis & tran | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | Chloroform | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | 1,2-Dichloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | 2-Butanone | ug/Kg | n/a | 6180 | 1.04e+04 | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | 1,1,1-Trichloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | Carbon Tetrachloride | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | Bromodichloromethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | 1,2-Dichloropropane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | cis-1,3-Dichloropropene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | Trichloroethene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | Dibromochloromethane | ug/Kg | n/a | ND | 6.27e+02 | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | 1,1,2-Trichloroethane | ug/Kg | n/a | ND | 8.25e+04 | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | Benzene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | trans-1,3-Dichloropropene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | Bromoform | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | 4-Methyl-2-pentanone | ug/Kg | n/a | 13200 | 2.66e+07 | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | 2-Hexanone | ug/Kg | n/a | ND | 2.62e+04 | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | Tetrachloroethene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | Toluene | ug/Kg | n/a | ND | 1.80e+03 | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | 1,1,2,2-Tetrachloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | Chlorobenzene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | Ethylbenzene | ug/Kg | n/a | ND | 8.50e+03 | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | Styrene | ug/Kg | n/a | ND | 1.02e+04 | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | Xylenes (total) | ug/Kg | n/a | 4850 | 5.29e+03 | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |
| S01M000095 | | | 1,1-Dichloroethene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 8.33e+03 | n/a |

000092

H2ODIG01: H2ODIG01

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000151 | | W | Fluoride IC SW846 | ug/g | 92.50 | 0.0200 | 1.08e+02 | n/a | n/a | n/a | n/a | 2.277 | n/a |
| S01M000151 | | W | Chloride SW-846 | ug/g | 97.88 | <0.0170 | 28.46 | n/a | n/a | n/a | n/a | 3.226 | n/a |
| S01M000151 | | W | Nitrite IC SW846 | ug/g | 96.18 | <0.108 | < 20.49 | n/a | n/a | n/a | n/a | 20.49 | n/a |
| S01M000151 | | W | Nitrate by IC SW846 | ug/g | 99.00 | <0.139 | < 26.38 | n/a | n/a | n/a | n/a | 26.38 | n/a |
| S01M000151 | | W | Phosphate by IC SW846 | ug/g | 101.6 | <0.120 | < 22.77 | n/a | n/a | n/a | n/a | 22.77 | n/a |
| S01M000151 | | W | Sulfate by IC SW846 | ug/g | 100.2 | <0.138 | < 26.19 | n/a | n/a | n/a | n/a | 26.19 | n/a |

Parent: Parent

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000090 | | | Cyanide EDTA Addition | ug/g | 103.1 | <3.80E-2 | < 2.310 | n/a | n/a | n/a | n/a | 2.310 | n/a |
| S01M000090 | | | Volume % Settled Solids | % | n/a | n/a | 95.00 | n/a | n/a | n/a | n/a | 1.00e-01 | n/a |
| S01M000090 | | | Color of Sample | | n/a | n/a | black | n/a | n/a | n/a | n/a | n/a | n/a |

SVOA/PCB: SVOA/PCB

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000100 | | | Aroclor-1016 by SW-846 8082 | ug/Kg | n/a | <50 | < 47.80 | n/a | n/a | n/a | n/a | 47.80 | n/a |
| S01M000100 | | | Aroclor-1221 by SW-846 8082 | ug/Kg | n/a | <150 | <1.43e+02 | n/a | n/a | n/a | n/a | 143.4 | n/a |
| S01M000100 | | | Aroclor-1232 by SW-846 8082 | ug/Kg | n/a | <140 | <1.34e+02 | n/a | n/a | n/a | n/a | 133.8 | n/a |
| S01M000100 | | | Aroclor-1242 by SW-846 8082 | ug/Kg | n/a | <80 | < 76.50 | n/a | n/a | n/a | n/a | 76.50 | n/a |
| S01M000100 | | | Aroclor-1248 by SW-846 8082 | ug/Kg | n/a | <40 | < 38.20 | n/a | n/a | n/a | n/a | 38.20 | n/a |
| S01M000100 | | | Aroclor-1254 by SW-846 8082 | ug/Kg | 91.83 | <40 | 1.44e+03 | n/a | n/a | n/a | n/a | 200.0 | n/a |
| S01M000100 | | | Aroclor-1260 by SW-846 8082 | ug/Kg | n/a | <50 | < 47.80 | n/a | n/a | n/a | n/a | 47.80 | n/a |
| S01M000100 | | | Aroclor-1262 by SW-846 8082 | ug/Kg | n/a | <40 | < 38.20 | n/a | n/a | n/a | n/a | 38.20 | n/a |
| S01M000100 | | | bis-(2-Chloroethyl) ether | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | 1,3-Dichlorobenzene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | 1,2-Dichlorobenzene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | 2,2'-oxybis(1-Chloropropane) | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | Isophorone | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | 2,4-Dimethylphenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | bis(2-Chloroethoxy)methane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | 4-Chloroaniline | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | 2-Methylnaphthalene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | Hexachlorocyclopentadiene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | 2,4,6-Trichlorophenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | 2-Chloronaphthalene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | 2-Nitroaniline | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | Dimethylphthalate | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | Acenaphthylene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | 2,6-Dinitrotoluene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | 3-Nitroaniline | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | 2,4-Dinitrophenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | Dibenzofuran | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | Diethylphthalate | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | 4-Chlorophenyl-phenylether | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | Fluorene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | 4-Nitroaniline | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | 4,6-Dinitro-2-methylphenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000100 | | | N-Nitrosodiphenylamine | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | 4-Bromophenyl-phenylether | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | Hexachlorobenzene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | Pentachlorophenol | ug/Kg | 25.00 | ND | ND | n/a | n/a | n/a | n/a | 3.23e+07 | n/a |
| S01M000100 | | | Phenol | ug/Kg | 75.00 | ND | ND | n/a | n/a | n/a | n/a | 5.14e+06 | n/a |
| S01M000100 | | | Phenanthrene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | Anthracene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | Di-n-butylphthalate | ug/Kg | n/a | 7600 | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | Fluoranthene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | Butylbenzylphthalate | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | 3,3'-Dichlorobenzidine | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | Benzo(a)anthracene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | Chrysene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | bis(2-Ethylhexyl)phthalate | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 6.94e+06 | n/a |
| S01M000100 | | | 2,4-Dichlorophenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 5.90e+06 | n/a |
| S01M000100 | | | 2-Nitrophenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 7.75e+06 | n/a |
| S01M000100 | | | 2-Chlorophenol | ug/Kg | 70.00 | ND | ND | n/a | n/a | n/a | n/a | 4.37e+06 | n/a |
| S01M000100 | | | Pyrene | ug/Kg | 83.00 | ND | ND | n/a | n/a | n/a | n/a | 5.41e+06 | n/a |
| S01M000100 | | | N-Nitroso-di-n-propylamine | ug/Kg | 84.00 | ND | ND | n/a | n/a | n/a | n/a | 6.31e+06 | n/a |
| S01M000100 | | | 1,2,4-Trichlorobenzene SV | ug/Kg | 88.00 | ND | ND | n/a | n/a | n/a | n/a | 1.23e+07 | n/a |
| S01M000100 | | | 4-Chloro-3-methylphenol | ug/Kg | 75.00 | ND | ND | n/a | n/a | n/a | n/a | 9.14e+06 | n/a |
| S01M000100 | | | Acenaphthene | ug/Kg | 86.00 | ND | ND | n/a | n/a | n/a | n/a | 1.09e+07 | n/a |
| S01M000100 | | | 4-Nitrophenol | ug/Kg | 26.00 | ND | ND | n/a | n/a | n/a | n/a | 3.60e+07 | n/a |
| S01M000100 | | | 2,4-Dinitrotoluene | ug/Kg | 65.00 | ND | ND | n/a | n/a | n/a | n/a | 7.03e+06 | n/a |
| S01M000100 | | | 2-Methylphenol | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 7.93e+06 | n/a |
| S01M000100 | | | 3 & 4 Methylphenol Total | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 6.80e+06 | n/a |
| S01M000100 | | | 1,4-Dichlorobenzene | ug/Kg | 82.00 | ND | ND | n/a | n/a | n/a | n/a | 1.21e+07 | n/a |
| S01M000100 | | | Di-n-octylphthalate | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 6.80e+06 | n/a |
| S01M000100 | | | Hexachloroethane | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 1.37e+07 | n/a |
| S01M000100 | | | Naphthalene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | 1.21e+07 | n/a |
| S01M000100 | | | Tri-n-butylphosphate | ug/Kg | n/a | ND | 4.40e+07 | n/a | n/a | n/a | n/a | 3.25e+06 | n/a |
| S01M000100 | | | Benzo(b)fluoranthene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | Benzo(k)fluoranthene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | Benzo(a)pyrene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | Indeno(1,2,3-cd)pyrene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | Dibenz(a,h)anthracene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | Benzo(g,h,i)perylene | ug/Kg | n/a | ND | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | Nitrobenzene | ug/Kg | n/a | n/a | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | Hexachlorobutadiene | ug/Kg | n/a | n/a | ND | n/a | n/a | n/a | n/a | n/a | n/a |
| S01M000100 | | | 2,4,5-Trichlorophenol | ug/Kg | n/a | n/a | ND | n/a | n/a | n/a | n/a | n/a | n/a |

TCLP EXTRACT: TCLP EXTRACT

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000153 | | T | Mercury by CVAA (PE) with FIAS | ug/mL | 101.0 | <6.0e-5 | <1.20e-03 | n/a | n/a | n/a | n/a | 1.20e-03 | n/a |

TCLP Metals: TCLP Metals

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000154 | | B | Silver -ICP-Acid Digest-Liquid | ug/mL | 92.50 | <0.0100 | <5.00e-02 | n/a | n/a | n/a | n/a | 5.00e-02 | n/a |
| S01M000154 | | B | Arsenic -ICP-Acid Digest-Liq | ug/mL | 97.60 | <0.100 | <5.00e-01 | n/a | n/a | n/a | n/a | 5.00e-01 | n/a |
| S01M000154 | | B | Barium -ICP-Acid Digest-Liquid | ug/mL | 93.00 | 0.139 | 8.06e-01 | n/a | n/a | n/a | n/a | 2.50e-01 | n/a |
| S01M000154 | | B | Cadmium -ICP-Acid Digest-Liq | ug/mL | 97.20 | <0.00500 | <2.50e-02 | n/a | n/a | n/a | n/a | 2.50e-02 | n/a |
| S01M000154 | | B | Chromium -ICP-Acid Digest-Liq | ug/mL | 94.70 | <0.0100 | <5.00e-02 | n/a | n/a | n/a | n/a | 5.00e-02 | n/a |
| S01M000154 | | B | Lead -ICP-Acid Digest-Liquid | ug/mL | 93.00 | <0.100 | 9.95e-01 | n/a | n/a | n/a | n/a | 5.00e-01 | n/a |
| S01M000154 | | B | Selenium -ICP-Acid Digest-Liq | ug/mL | 96.80 | <0.100 | <5.00e-01 | n/a | n/a | n/a | n/a | 5.00e-01 | n/a |

Total Metals: Total Metals

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000152 | | A | Silver -ICP-Acid Digest | ug/g | 87.50 | <0.0100 | < 7.630 | n/a | n/a | n/a | n/a | 7.630 | n/a |
| S01M000152 | | A | Arsenic -ICP-Acid Digest | ug/g | 93.60 | <0.100 | < 76.30 | n/a | n/a | n/a | n/a | 76.30 | n/a |
| S01M000152 | | A | Barium -ICP-Acid Digest | ug/g | 89.20 | <0.0500 | < 38.20 | n/a | n/a | n/a | n/a | 38.20 | n/a |
| S01M000152 | | A | Beryllium -ICP-Acid Digest | ug/g | 94.50 | <0.00500 | < 3.820 | n/a | n/a | n/a | n/a | 3.820 | n/a |
| S01M000152 | | A | Cadmium -ICP-Acid Digest | ug/g | 91.70 | <0.00500 | < 3.820 | n/a | n/a | n/a | n/a | 3.820 | n/a |
| S01M000152 | | A | Chromium -ICP-Acid Digest | ug/g | 88.90 | <0.0100 | 27.50 | n/a | n/a | n/a | n/a | 7.630 | n/a |
| S01M000152 | | A | Copper -ICP-Acid Digest | ug/g | 93.20 | <0.0100 | 67.30 | n/a | n/a | n/a | n/a | 7.630 | n/a |
| S01M000152 | | A | Nickel -ICP-Acid Digest | ug/g | 89.80 | <0.0200 | 79.30 | n/a | n/a | n/a | n/a | 15.30 | n/a |
| S01M000152 | | A | Lead -ICP-Acid Digest | ug/g | 87.70 | <0.100 | 1.77e+03 | n/a | n/a | n/a | n/a | 76.30 | n/a |
| S01M000152 | | A | Antimony -ICP-Acid Digest | ug/g | 95.80 | <0.0600 | < 45.80 | n/a | n/a | n/a | n/a | 45.80 | n/a |
| S01M000152 | | A | Selenium -ICP-Acid Digest | ug/g | 92.80 | <0.100 | < 76.30 | n/a | n/a | n/a | n/a | 76.30 | n/a |

**Attachment 2. Data Summary Report**
**276SHEX SDG1**

**CORE NUMBER:** n/a
**SEGMENT #:** B11H72-A

SEGMENT PORTION: Fusion

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000082 | | F | Alpha of Digested Solid | uCi/g | 88.34 | <1.81E-3 | 2.21e-02 | n/a | n/a | n/a | n/a | 3.74e-03 | 2.41E+01 |

Parent: Parent

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000078 | | | Bulk Density of Sample | g/mL | n/a | n/a | 9.72e-01 | 9.95e-01 | 9.84e-01 | 2.34 | n/a | 5.00e-01 | n/a |
| S01M000078 | | | Volume % Settled Solids | % | n/a | n/a | 95.00 | n/a | n/a | n/a | n/a | 1.00e-01 | n/a |
| S01M000078 | | | Color of Sample | | n/a | n/a | black | n/a | n/a | n/a | n/a | n/a | n/a |

**Attachment 2. Data Summary Report**
**276SHEX SDG1**

**CORE NUMBER:** n/a
**SEGMENT #:** B11H73-A

SEGMENT PORTION: Fusion

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000083 | | F | Alpha of Digested Solid | uCi/g | 88.34 | <1.81E-3 | <2.86e-03 | n/a | n/a | n/a | n/a | 3.75e-03 | 1.89E+02 |

Parent: Parent

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000079 | | | Bulk Density of Sample | g/mL | n/a | n/a | 1.210 | n/a | n/a | n/a | n/a | 5.00e-01 | n/a |
| S01M000079 | | | Volume % Settled Solids | % | n/a | n/a | 90.00 | n/a | n/a | n/a | n/a | 1.00e-01 | n/a |
| S01M000079 | | | Color of Sample | | n/a | n/a | brnL/blk | n/a | n/a | n/a | n/a | n/a | n/a |

000081

**Attachment 2. Data Summary Report**
**276SHEX SDG1**

CORE NUMBER: n/a
SEGMENT #: B11N74-A

SEGMENT PORTION: Fusion

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000084 | | F | Alpha of Digested Solid | uCi/g | 88.34 | <1.81E-3 | 2.71e-02 | n/a | n/a | n/a | n/a | 3.70e-03 | 2.13E+01 |

Parent: Parent

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000080 | | | Bulk Density of Sample | g/mL | n/a | n/a | 9.11e-01 | n/a | n/a | n/a | n/a | 5.00e-01 | n/a |
| S01M000080 | | | Volume % Settled Solids | % | n/a | n/a | 95.00 | n/a | n/a | n/a | n/a | 1.00e-01 | n/a |
| S01M000080 | | | Color of Sample | | n/a | n/a | black | n/a | n/a | n/a | n/a | n/a | n/a |

**Attachment 2. Data Summary Report**
**276SHEX SDG1**

**CORE NUMBER:** n/a
**SEGMENT #:** B11H75-A

**SEGMENT PORTION:** Fusion

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000085 | | F | Alpha of Digested Solid | uCi/g | 88.34 | <1.81E-3 | 4.75e-02 | n/a | n/a | n/a | n/a | 3.78e-03 | 1.63E+01 |

Parent: Parent

| Sample# | R | A# | Analyte | Unit | Standard % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Count Err% |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S01M000081 | | | Bulk Density of Sample | g/mL | n/a | n/a | 1.195 | n/a | n/a | n/a | n/a | 5.00e-01 | n/a |
| S01M000081 | | | Volume % Settled Solids | % | n/a | n/a | 98.00 | n/a | n/a | n/a | n/a | 1.00e-01 | n/a |
| S01M000081 | | | Color of Sample | | n/a | n/a | black | n/a | n/a | n/a | n/a | n/a | n/a |

000033

FH-0103068

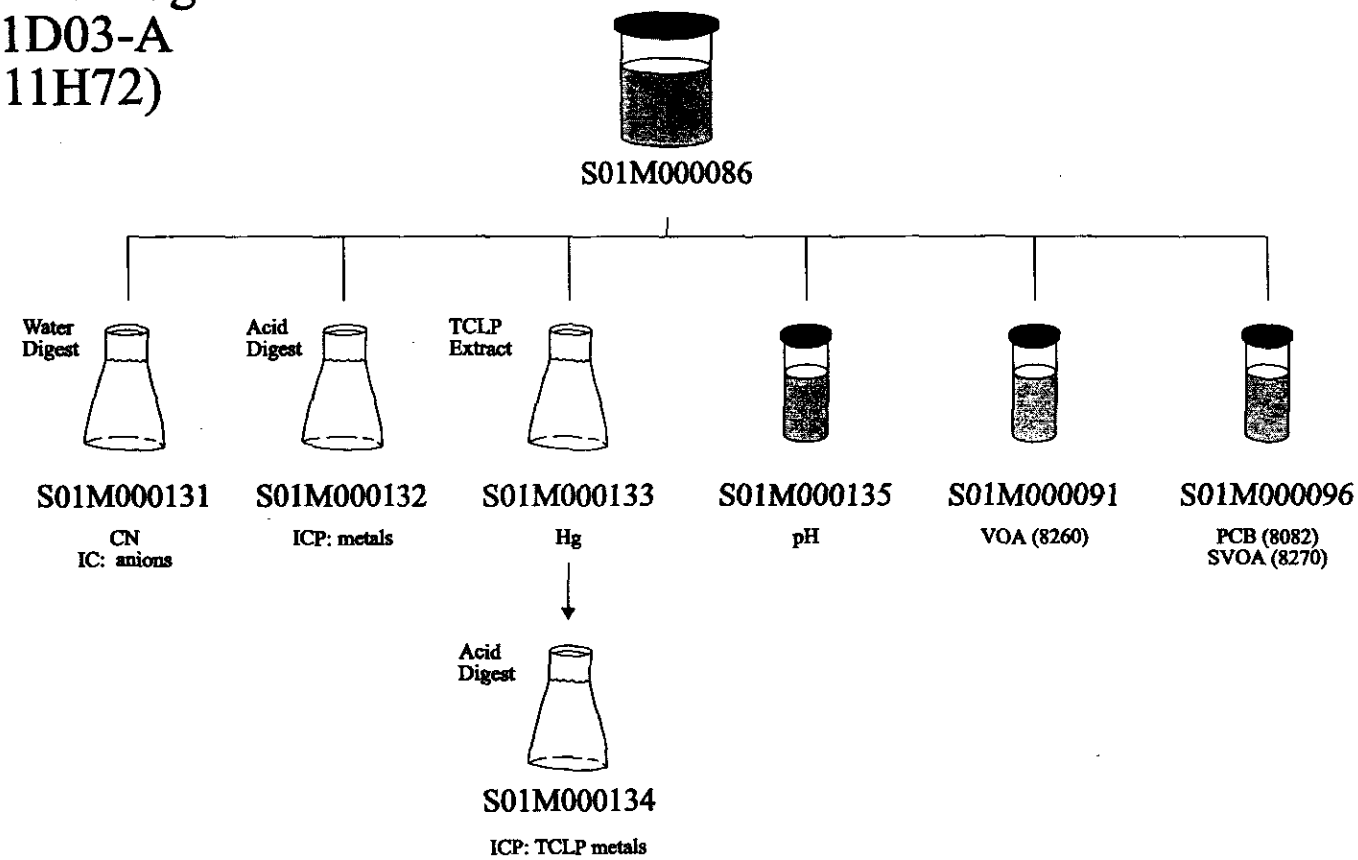
ATTACHMENT 3

# SAMPLE BREAKDOWN DIAGRAM

Consisting of 7 pages,
Including cover page

# 276-S Hexone Tank Sludge Samples

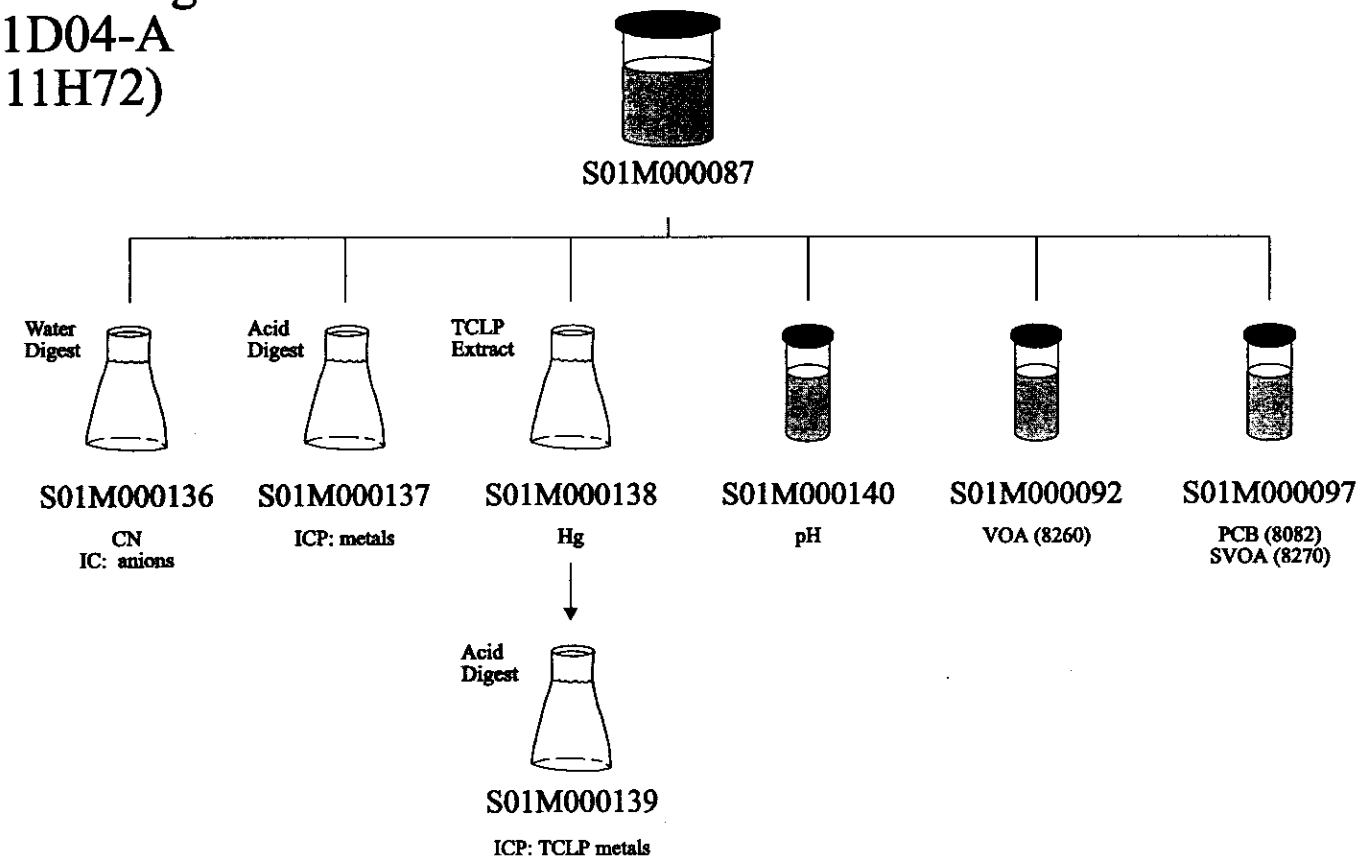
## Tar-like Sludge
## B11D03-A
## (B11H72)




000035

# 276-S Hexone Tank Sludge Samples

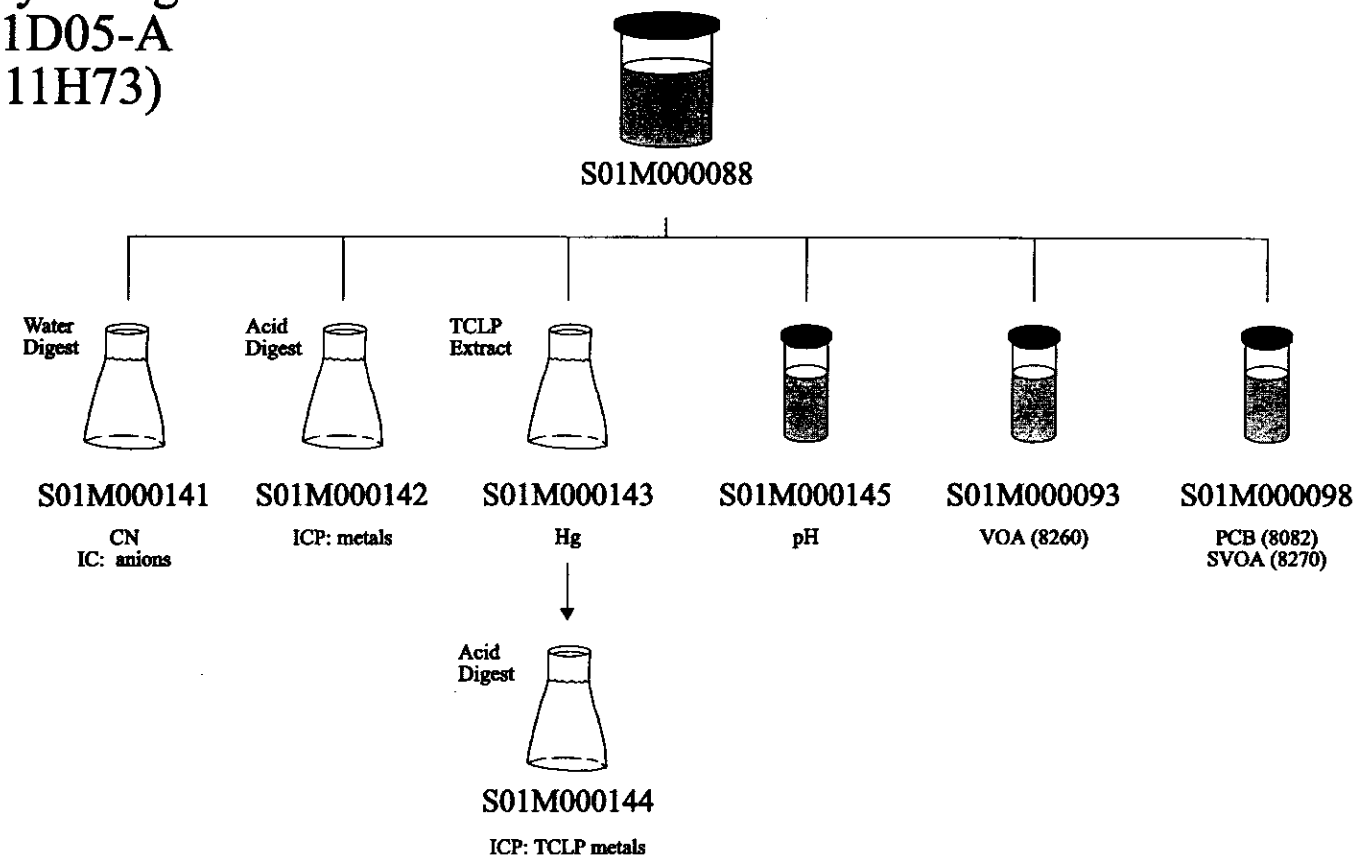
## Tar-like Sludge
## B11D04-A
## (B11H72)




0000036

# 276-S Hexone Tank Sludge Samples

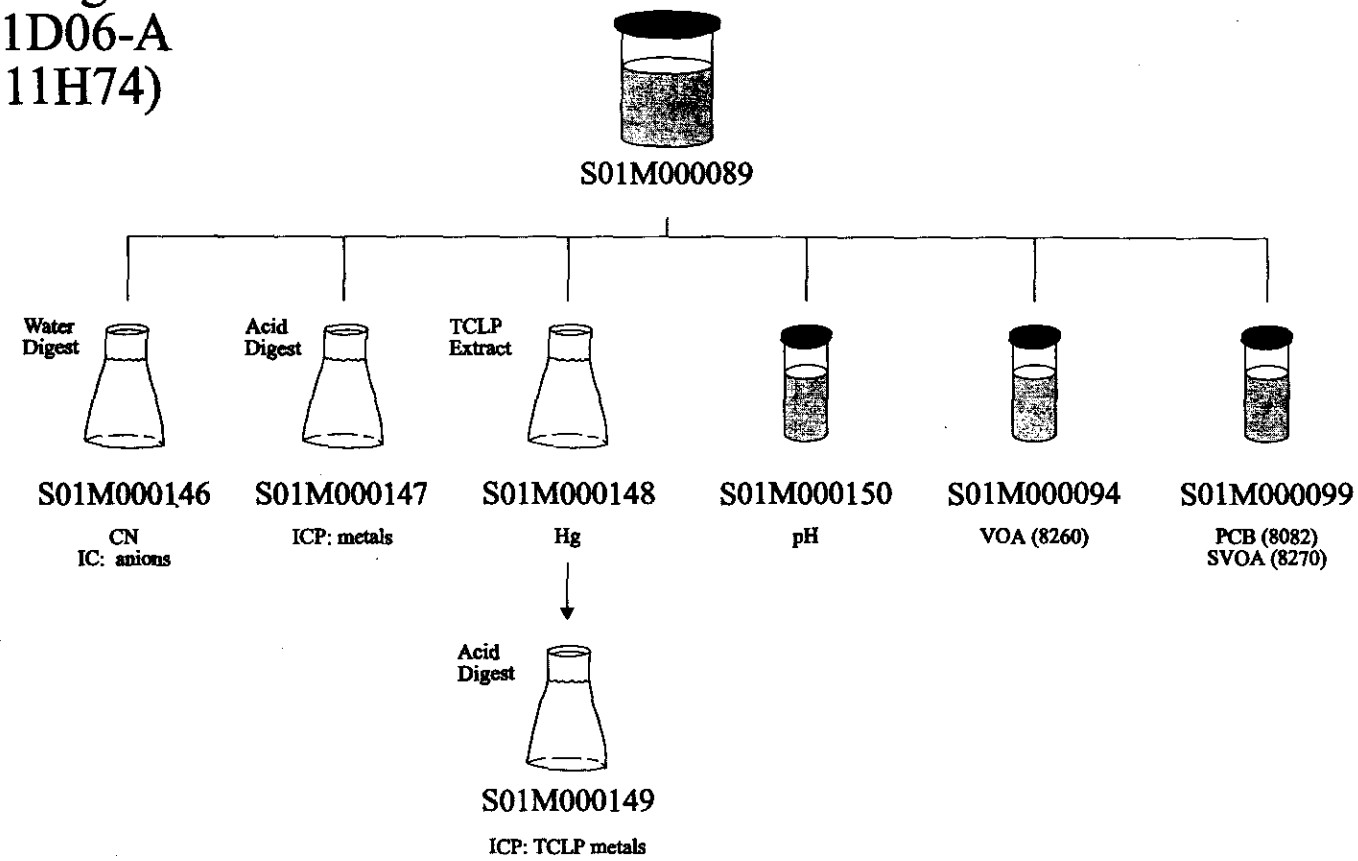
## Sandy Sludge
## B11D05-A
## (B11H73)




000037

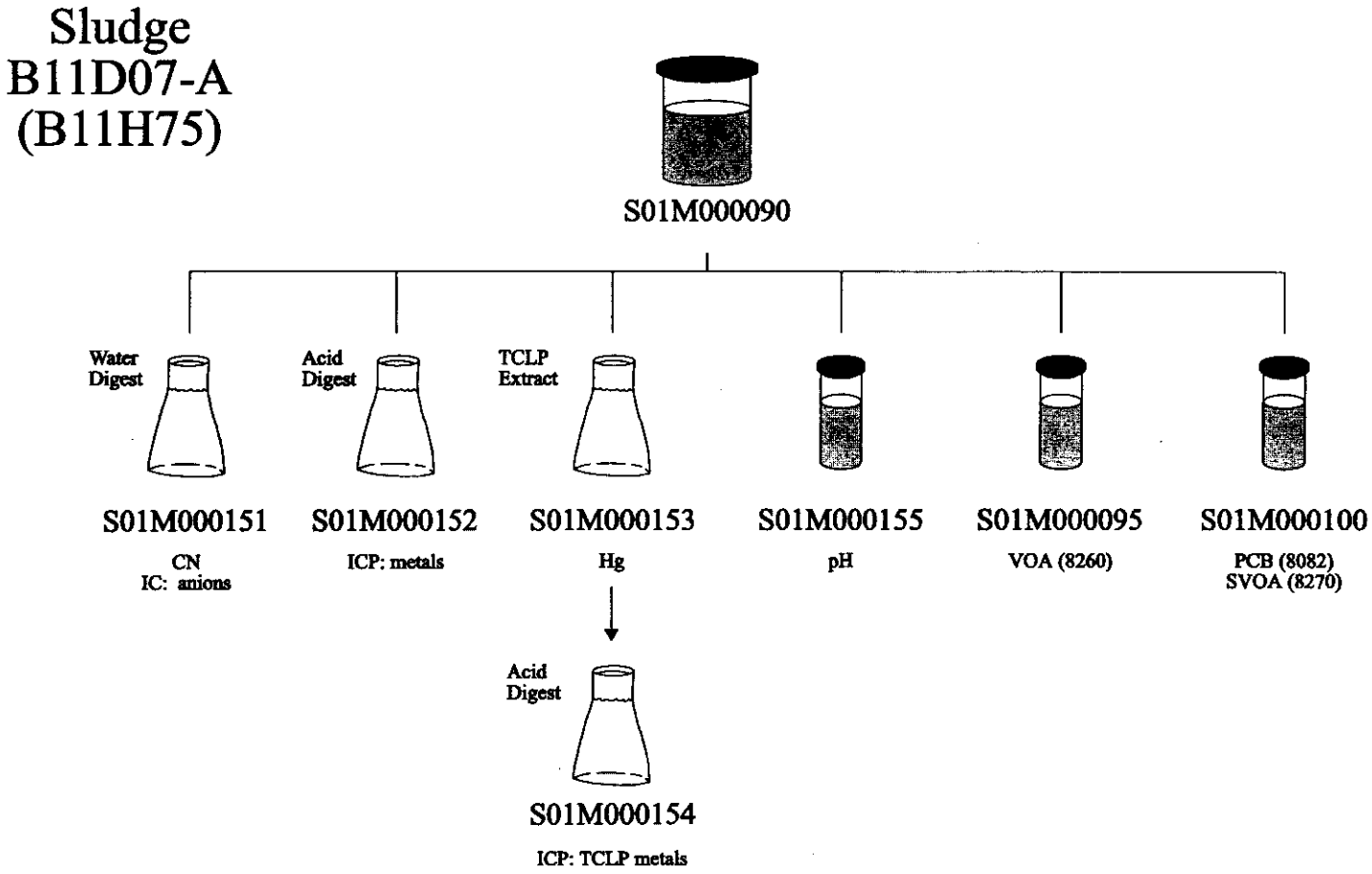
# 276-S Hexone Tank Sludge Samples

Sludge
B11D06-A
(B11H74)



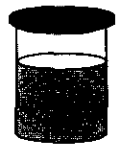
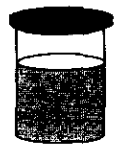
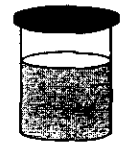
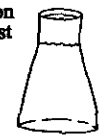

000038

# 276-S Hexone Tank Sludge Samples




0000039

# 276-S Hexone Tank Sludge Samples

| Tar-like Sludge B11H72-A | Sandy Sludge B11H73-A | Sludge B11H74-A | Sludge B11H75-A |
|---|---|---|---|
|  |  | |  |
| S01M000078 | S01M000079 | S01M000080 | S01M000081 |
| Density | Density | Density | Density |
| Fusion Digest | Fusion Digest | Fusion Digest | Fusion Digest  |
| S01M000082 | S01M000083 | S01M000084 | S01M000085 |
| Gross Alpha | Gross Alpha | Gross Alpha | Gross Alpha |

000040

FH-0103068

ATTACHMENT 4

# TENTATIVELY IDENTIFIED COMPOUNDS (TICs) FOR THE SEMI-VOLATILE ORGANIC ANALYSIS

Consisting of 12 pages,
Including cover page

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SBLK437

Lab Name: WSCF Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDG010417

Matrix: (soil/water) SOIL Lab Sample ID: SBLK437

Sample wt/vol: 1.0 (g/mL) G Lab File ID: SBLK437

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/26/01

Concentrated Extract Volume: 2000(uL) Date Analyzed: 04/26/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 13.53 | 8300 | J |
| 2. | | | | |
| 3. | | | | |
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FORM I SV-TIC

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SBLK438

Lab Name: WSCF Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDG010417

Matrix: (soil/water) SOIL Lab Sample ID: SBLK438

Sample wt/vol: 1.0 (g/mL) G Lab File ID: SBLK438

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/28/01

Concentrated Extract Volume: 2000(uL) Date Analyzed: 04/26/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 6.31 | 4400 | J |
| 2. | UNKNOWN | 7.22 | 8300 | J |
| 3. 84-69-5 | 1,2-BENZENEDICARBOXYLIC ACID | 13.52 | 13000 | NJ |
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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

LCS437

Lab Name: WSCF Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDG010417

Matrix: (soil/water) SOIL Lab Sample ID: LCS437

Sample wt/vol: 1.0 (g/mL) G Lab File ID: LCS437

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/26/01

Concentrated Extract Volume: 2000(uL) Date Analyzed: 04/26/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 2.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 84-69-5 | 1,2-BENZENEDICARBOXYLIC ACID | 13.53 | 19000 | NJ |
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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000096

Lab Name: WSCF Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDG010417

Matrix: (soil/water) SOIL Lab Sample ID: S01M000096

Sample wt/vol: 0.2 (g/mL) G Lab File ID: S01M000096

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 03/26/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/18/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 2.0

Number TICs found: 15

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 108-10-1 | METHYL ISOBUTYL KETONE | 3.46 | 14000000 | NJ |
| 2. 124-18-5 | DECANE | 5.44 | 1600000 | NJ |
| 3. 104-76-7 | 1-HEXANOL, 2-ETHYL- | 5.65 | 1200000 | NJ |
| 4. 1120-21-4 | UNDECANE | 6.18 | 18000000 | NJ |
| 5. 112-40-3 | DODECANE | 6.98 | 1300000 | NJ |
| 6. | UNKNOWN HYDROCARBON | 7.54 | 160000 | J |
| 7. 629-50-5 | TRIDECANE | 7.90 | 4500000 | NJ |
| 8. | UNKNOWN HYDROCARBON | 8.51 | 300000 | J |
| 9. 629-59-4 | TETRADECANE | 8.87 | 19000000 | NJ |
| 10. 629-62-9 | PENTADECANE | 9.36 | 180000 | NJ |
| 11. | UNKNOWN | 9.51 | 180000 | J |
| 12. 544-76-3 | HEXADECANE | 10.81 | 280000 | NJ |
| 13. | UNKNOWN | 14.16 | 3700000 | J |
| 14. | UNKNOWN | 16.66 | 5400000 | J |
| 15. | UNKNOWN | 18.79 | 1000000 | J |
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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000096D

Lab Name: WSCF Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDG010417

Matrix: (soil/water) SOIL Lab Sample ID: S01M000096D

Sample wt/vol: 0.2 (g/mL) G Lab File ID: S01M000096D

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/26/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/18/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 2.0

Number TICs found: 15

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 108-10-1 | METHYL ISOBUTYL KETONE | 3.48 | 28000000 | NJ |
| 2. 124-18-5 | DECANE | 5.44 | 1500000 | NJ |
| 3. 104-76-7 | 1-HEXANOL, 2-ETHYL- | 5.65 | 1000000 | NJ |
| 4. 1120-21-4 | UNDECANE | 6.18 | 17000000 | NJ |
| 5. 112-40-3 | DODECANE | 6.98 | 970000 | NJ |
| 6. 629-50-5 | TRIDECANE | 7.92 | 2800000 | NJ |
| 7. | UNKNOWN | 8.52 | 250000 | J |
| 8. 629-59-4 | TETRADECANE | 8.88 | 19000000 | NJ |
| 9. | UNKNOWN HYDROCARBON | 9.36 | 130000 | J |
| 10. | UNKNOWN | 9.51 | 140000 | J |
| 11. | UNKNOWN | 10.52 | 100000 | J |
| 12. 544-76-3 | HEXADECANE | 10.82 | 230000 | NJ |
| 13. | UNKNOWN | 14.16 | 3500000 | J |
| 14. | UNKNOWN | 16.66 | 4100000 | J |
| 15. | UNKNOWN | 18.79 | 830000 | J |
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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000097

Lab Name: WSCF Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDG010417

Matrix: (soil/water) SOIL Lab Sample ID: S01M000097

Sample wt/vol: 0.1 (g/mL) G Lab File ID: S01M000097

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 03/28/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/18/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 2.0

Number TICs found: 13

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 108-10-1 | METHYL ISOBUTYL KETONE | 3.45 | 15000000 | NJ |
| 2. 124-18-5 | DECANE | 5.45 | 1600000 | NJ |
| 3. 104-76-7 | 1-HEXANOL, 2-ETHYL- | 5.65 | 1300000 | NJ |
| 4. 112-40-3 | DODECANE | 6.96 | 2200000 | NJ |
| 5. | UNKNOWN HYDROCARBON | 7.10 | 230000 | J |
| 6. 629-50-5 | TRIDECANE | 7.86 | 8600000 | NJ |
| 7. | UNKNOWN HYDROCARBON | 8.50 | 480000 | J |
| 8. 629-59-4 | TETRADECANE | 8.83 | 19000000 | NJ |
| 9. 629-62-9 | PENTADECANE | 9.34 | 450000 | NJ |
| 10. 6064-27-3 | 6-DODECANONE | 9.47 | 290000 | NJ |
| 11. 544-76-3 | HEXADECANE | 10.80 | 420000 | NJ |
| 12. | UNKNOWN | 14.14 | 4300000 | J |
| 13. | UNKNOWN | 16.65 | 6300000 | J |
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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000098

Lab Name: WSCF Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDG010417

Matrix: (soil/water) SOIL Lab Sample ID: S01M000098

Sample wt/vol: 0.1 (g/mL) G Lab File ID: S01M000098

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 03/28/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/17/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 15

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 108-10-1 | METHYL ISOBUTYL KETONE | 3.43 | 5200000 | NJ |
| 2. 124-18-5 | DECANE | 5.43 | 540000 | NJ |
| 3. 1120-21-4 | UNDECANE | 6.14 | 7600000 | NJ |
| 4. 112-40-3 | DODECANE | 6.91 | 17000000 | NJ |
| 5. 17301-23-4 | UNDECANE, 2,6-DIMETHYL- | 7.00 | 650000 | NJ |
| 6. | UNKNOWN HYDROCARBON | 7.08 | 1900000 | J |
| 7. | UNKNOWN HYDROCARBON | 7.22 | 600000 | J |
| 8. | UNKNOWN HYDROCARBON | 7.38 | 1000000 | J |
| 9. | UNKNOWN HYDROCARBON | 7.50 | 1300000 | J |
| 10. 629-50-5 | TRIDECANE | 7.80 | 14000000 | NJ |
| 11. | UNKNOWN HYDROCARBON | 8.47 | 500000 | J |
| 12. 629-59-4 | TETRADECANE | 8.75 | 13000000 | NJ |
| 13. 629-62-9 | PENTADECANE | 10.78 | 420000 | NJ |
| 14. | UNKNOWN | 14.13 | 1100000 | J |
| 15. | UNKNOWN | 16.63 | 1700000 | J |
| 16. | | | | |
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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000099

Lab Name: WSCF Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDG010417

Matrix: (soil/water) SOIL Lab Sample ID: S01M000099

Sample wt/vol: 0.1 (g/mL) G Lab File ID: S01M000099

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 04/28/01

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 04/17/01

Injection Volume: 1.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 2.0

Number TICs found: 7

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 108-10-1 | METHYL ISOBUTYL KETONE | 3.44 | 18000000 | NJ |
| 2. 1120-21-4 | UNDECANE | 6.14 | 23000000 | NJ |
| 3. 112-40-3 | DODECANE | 6.92 | 48000000 | NJ |
| 4. 629-50-5 | TRIDECANE | 7.79 | 86000000 | NJ |
| 5. 629-59-4 | TETRADECANE | 8.74 | 55000000 | NJ |
| 6. | UNKNOWN | 14.15 | 12000000 | J |
| 7. | UNKNOWN | 16.68 | 8400000 | J |
| 8. | | | | |
| 9. | | | | |
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FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000100

Lab Name: WSCF Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDG010417

Matrix: (soil/water) SOIL Lab Sample ID: S01M000100

Sample wt/vol: 0.1 (g/mL) G Lab File ID: S01M000100

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/28/01

Concentrated Extract Volume: 10000(uL) Date Analyzed: 04/17/01

Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) N pH: 2.0

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 112-40-3 | DODECANE | 6.92 | 43000000 | NJ |
| 2. 629-50-5 | TRIDECANE | 7.78 | 100000000 | NJ |
| 3. 629-59-4 | TETRADECANE | 8.74 | 70000000 | NJ |
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FORM I SV-TIC

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SBLK437

Lab Name: WSCF Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDG010417

Matrix: (soil/water) SOIL Lab Sample ID: SBLK437

Sample wt/vol: 1.0 (g/mL) G Lab File ID: SBLK437

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted:03/26/01

Concentrated Extract Volume: 2000(uL) Date Analyzed: 04/26/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 13.53 | 8300 | J |
| 2. | | | | |
| 3. | | | | |
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FORM I SV-TIC

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

SBLK438

Lab Name: WSCF Contract:

Lab Code: Case No.: SAS No.: SDG No.: SDG010417

Matrix: (soil/water) SOIL Lab Sample ID: SBLK438

Sample wt/vol: 1.0 (g/mL) G Lab File ID: SBLK438

Level: (low/med) LOW Date Received: _____

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 03/28/01

Concentrated Extract Volume: 2000(uL) Date Analyzed: 04/26/01

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 6.31 | 4400 | J |
| 2. | UNKNOWN | 7.22 | 8300 | J |
| 3. 84-69-5 | 1,2-BENZENEDICARBOXYLIC ACID | 13.52 | 13000 | NJ |
| 4. | | | | |
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FH-0103068

ATTACHMENT 5

# DATA SHEETS FOR THE VOLATILE ORGANIC ANALYSIS

Consisting of 30 pages,
Including cover page

FORM 3
SOIL VOLATILE LAB CONTROL SAMPLE

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix Spike - Sample No.: LCS1 Level:(low/med) LOW

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC # | QC. LIMITS REC. |
|---|---|---|---|---|---|
| Benzene | 500.00 | | 464.24 | 93 | 66-142 |
| Chlorobenzene | 500.00 | | 409.72 | 82 | 60-133 |
| 1,1-Dichloroethene | 500.00 | | 483.62 | 97 | 59-172 |
| Toluene | 500.00 | | 419.29 | 84 | 59-139 |
| Trichloroethene | 500.00 | | 445.09 | 89 | 62-137 |

# Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS: _____

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BLANK

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: BLANK

Sample wt/vol: 0.0 (g/mL) G Lab File ID: VBLNK1

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 71-36-3 | Dichlorodifluoromethane | 2500.0 | U |
| 74-87-3 | Chloromethane | 2500.0 | U |
| 75-01-4 | Vinyl Chloride | 2500.0 | U |
| 74-83-9 | Bromomethane | 2500.0 | U |
| 71-43-2 | Benzene | 2500.0 | U |
| 75-27-4 | Bromodichloromethane | 2500.0 | U |
| 75-25-2 | Bromoform | 2500.0 | U |
| 56-23-5 | Carbon Tetrachloride | 2500.0 | U |
| 108-90-7 | Chlorobenzene | 2500.0 | U |
| 75-00-3 | Chloroethane | 2500.0 | U |
| 67-66-3 | Chloroform | 2500.0 | U |
| 124-48-1 | Dibromochloromethane | 2500.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2500.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 2500.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 2500.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 2500.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 2500.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 2500.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 2500.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 2500.0 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 2500.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 2500.0 | U |
| 100-41-4 | Ethylbenzene | 2500.0 | U |
| 98-82-8 | Isopropylbenzene | 2500.0 | U |
| 75-09-2 | Methylene Chloride | 2500.0 | U |
| 100-42-5 | Styrene | 2500.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2500.0 | U |
| 127-18-4 | Tetrachloroethene | 2500.0 | U |
| 108-88-3 | Toluene | 2500.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2500.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 2500.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 2500.0 | U |
| 79-01-6 | Trichloroethene | 2500.0 | U |

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

BLANK

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: BLANK

Sample wt/vol: 0.0 (g/mL) G Lab File ID: VBLNK1

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-69-4 | Trichlorofluoromethane | 2500.0 | U |
| 95-47-6 | o-Xylene | 3634.0 | |
| 108-38-3 | m,p-Xylene | 1219.0 | J |
| 67-64-1 | Acetone | 110.30 | J |
| 78-93-3 | 2-Butanone | 6178.0 | |
| 108-10-1 | Methyl Isobutyl Ketone | 13174 | |
| 591-78-6 | 2-Hexanone | 2500.0 | U |
| 71-36-3 | n-Butanol | 5819.0 | |
| 540-59-0 | Total 1,2-Dichloroethene | 2500.0 | U |
| 1330-20-7 | Total Xylenes | 4852.0 | |
| 76-13-1 | Freon 113 | 2500.0 | U |
| 79-20-9 | Methyl Acetate | 2500.0 | U |
| 75-15-0 | Carbon Disulfide | 2500.0 | U |
| 1735-17-7 | Cyclohexane | 2500.0 | U |
| 109-99-9 | Tetrahydrofuran | 2500.0 | U |
| 107-87-9 | 2-Pentanone | 2500.0 | U |
| 10061-01-5 | cis-1,3-dichloropropene | 2500.0 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 2500.0 | U |
| 1634-04-4 | tert-Butyl-Methyl Ether | 2500.0 | U |
| 108-87-2 | Methylcyclohexane | 2500.0 | U |
| THM | Total Trihalomethanes | 2500.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 2500.0 | U |

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS1

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: LCS1

Sample wt/vol: 1.0 (g/mL) G Lab File ID: LCS1

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 71-36-3 | Dichlorodifluoromethane | 25.000 | U |
| 74-87-3 | Chloromethane | 25.000 | U |
| 75-01-4 | Vinyl Chloride | 25.000 | U |
| 74-83-9 | Bromomethane | 25.000 | U |
| 71-43-2 | Benzene | 464.24 | |
| 75-27-4 | Bromodichloromethane | 25.000 | U |
| 75-25-2 | Bromoform | 25.000 | U |
| 56-23-5 | Carbon Tetrachloride | 25.000 | U |
| 108-90-7 | Chlorobenzene | 409.72 | |
| 75-00-3 | Chloroethane | 25.000 | U |
| 67-66-3 | Chloroform | 25.000 | U |
| 124-48-1 | Dibromochloromethane | 25.000 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 25.000 | U |
| 106-93-4 | 1,2-Dibromoethane | 25.000 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 25.000 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 25.000 | U |
| 75-34-3 | 1,1-Dichloroethane | 25.000 | U |
| 107-06-2 | 1,2-Dichloroethane | 25.000 | U |
| 75-35-4 | 1,1-Dichloroethene | 483.62 | |
| 156-59-2 | cis-1,2-Dichloroethene | 25.000 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 25.000 | U |
| 78-87-5 | 1,2-Dichloropropane | 25.000 | U |
| 100-41-4 | Ethylbenzene | 25.000 | U |
| 98-82-8 | Isopropylbenzene | 25.000 | U |
| 75-09-2 | Methylene Chloride | 25.000 | U |
| 100-42-5 | Styrene | 25.000 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 25.000 | U |
| 127-18-4 | Tetrachloroethene | 25.000 | U |
| 108-88-3 | Toluene | 419.29 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 25.000 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 25.000 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 25.000 | U |
| 79-01-6 | Trichloroethene | 445.09 | |

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

LCS1

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: LCS1

Sample wt/vol: 1.0 (g/mL) G Lab File ID: LCS1

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-69-4 | Trichlorofluoromethane | 25.000 | U |
| 95-47-6 | o-Xylene | 25.000 | U |
| 108-38-3 | m,p-Xylene | 25.000 | U |
| 67-64-1 | Acetone | 43.300 | |
| 78-93-3 | 2-Butanone | 62.240 | |
| 108-10-1 | Methyl Isobutyl Ketone | 109.55 | |
| 591-78-6 | 2-Hexanone | 25.000 | U |
| 71-36-3 | n-Butanol | 88.960 | |
| 540-59-0 | Total 1,2-Dichloroethene | 25.000 | U |
| 1330-20-7 | Total Xylenes | 25.000 | U |
| 76-13-1 | Freon 113 | 25.000 | U |
| 79-20-9 | Methyl Acetate | 25.000 | U |
| 75-15-0 | Carbon Disulfide | 25.000 | U |
| 1735-17-7 | Cyclohexane | 25.000 | U |
| 109-99-9 | Tetrahydrofuran | 25.000 | U |
| 107-87-9 | 2-Pentanone | 25.000 | U |
| 10061-01-5 | cis-1,3-dichloropropene | 25.000 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 25.000 | U |
| 1634-04-4 | tert-Butyl-Methyl Ether | 25.000 | U |
| 108-87-2 | Methylcyclohexane | 25.000 | U |
| THM | Total Trihalomethanes | 25.000 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 25.000 | U |

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000091

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000091

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000091

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 71-36-3 | Dichlorodifluoromethane | 646.30 | J |
| 74-87-3 | Chloromethane | 3577.0 | |
| 75-01-4 | Vinyl Chloride | 2649.0 | |
| 74-83-9 | Bromomethane | 226.90 | J |
| 71-43-2 | Benzene | 3060.0 | |
| 75-27-4 | Bromodichloromethane | 789.72 | J |
| 75-25-2 | Bromoform | 625.30 | J |
| 56-23-5 | Carbon Tetrachloride | 2076.0 | J |
| 108-90-7 | Chlorobenzene | 1168.8 | J |
| 75-00-3 | Chloroethane | 536.33 | J |
| 67-66-3 | Chloroform | 2508.0 | |
| 124-48-1 | Dibromochloromethane | 1475.2 | J |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2500.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1164.7 | J |
| 541-73-1 | 1,3-Dichlorobenzene | 2500.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 2500.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 2687.0 | |
| 107-06-2 | 1,2-Dichloroethane | 2850.0 | |
| 75-35-4 | 1,1-Dichloroethene | 2965.0 | |
| 156-59-2 | cis-1,2-Dichloroethene | 2919.0 | |
| 156-60-5 | trans-1,2-Dichloroethene | 2944.0 | |
| 78-87-5 | 1,2-Dichloropropane | 2500.0 | U |
| 100-41-4 | Ethylbenzene | 6693.0 | |
| 98-82-8 | Isopropylbenzene | 1455.8 | J |
| 75-09-2 | Methylene Chloride | 1425.0 | J |
| 100-42-5 | Styrene | 1627.0 | J |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 54484 | |
| 127-18-4 | Tetrachloroethene | 1003.1 | J |
| 108-88-3 | Toluene | 3380.9 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2500.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 2193.0 | J |
| 79-00-5 | 1,1,2-Trichloroethane | 2920.4 | |
| 79-01-6 | Trichloroethene | 2601.0 | |

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000091

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000091

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000091

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-69-4 | Trichlorofluoromethane | 2512.0 | |
| 95-47-6 | o-Xylene | 174.29 | J |
| 108-38-3 | m,p-Xylene | 3717.2 | |
| 67-64-1 | Acetone | 47226 | |
| 78-93-3 | 2-Butanone | 4396.4 | |
| 108-10-1 | Methyl Isobutyl Ketone | 8432200 | |
| 591-78-6 | 2-Hexanone | 33498 | |
| 71-36-3 | n-Butanol | 1475000 | |
| 540-59-0 | Total 1,2-Dichloroethene | 5863.0 | |
| 1330-20-7 | Total Xylenes | 3891.5 | |
| 76-13-1 | Freon 113 | 854.24 | J |
| 79-20-9 | Methyl Acetate | 2738.0 | |
| 75-15-0 | Carbon Disulfide | 1394.2 | J |
| 1735-17-7 | Cyclohexane | 1199.6 | J |
| 109-99-9 | Tetrahydrofuran | 5328.0 | |
| 107-87-9 | 2-Pentanone | 4210.5 | |
| 10061-01-5 | cis-1,3-dichloropropene | 1330.6 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | 1133.9 | J |
| 1634-04-4 | tert-Butyl-Methyl Ether | 1111.3 | J |
| 108-87-2 | Methylcyclohexane | 908.89 | J |
| THM | Total Trihalomethanes | 867.90 | J |
| 95-50-1 | 1,2-Dichlorobenzene | 2500.0 | U |

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000091DUP

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000091DUP

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000091DUP

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 71-36-3 | Dichlorodifluoromethane | 2272.7 | U |
| 74-87-3 | Chloromethane | 2272.7 | U |
| 75-01-4 | Vinyl Chloride | 2272.7 | U |
| 74-83-9 | Bromomethane | 2272.7 | U |
| 71-43-2 | Benzene | 2272.7 | U |
| 75-27-4 | Bromodichloromethane | 2272.7 | U |
| 75-25-2 | Bromoform | 2272.7 | U |
| 56-23-5 | Carbon Tetrachloride | 2272.7 | U |
| 108-90-7 | Chlorobenzene | 76.366 | J |
| 75-00-3 | Chloroethane | 2272.7 | U |
| 67-66-3 | Chloroform | 2272.7 | U |
| 124-48-1 | Dibromochloromethane | 466.90 | J |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2272.7 | U |
| 106-93-4 | 1,2-Dibromoethane | 2272.7 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 2272.7 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 2272.7 | U |
| 75-34-3 | 1,1-Dichloroethane | 2272.7 | U |
| 107-06-2 | 1,2-Dichloroethane | 2272.7 | U |
| 75-35-4 | 1,1-Dichloroethene | 2272.7 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 2272.7 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 2272.7 | U |
| 78-87-5 | 1,2-Dichloropropane | 2272.7 | U |
| 100-41-4 | Ethylbenzene | 5515.5 | |
| 98-82-8 | Isopropylbenzene | 506.26 | J |
| 75-09-2 | Methylene Chloride | 2272.7 | U |
| 100-42-5 | Styrene | 2683.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2272.7 | U |
| 127-18-4 | Tetrachloroethene | 2272.7 | U |
| 108-88-3 | Toluene | 2438.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2272.7 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 2272.7 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 4029.8 | |
| 79-01-6 | Trichloroethene | 2272.7 | U |

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000091DUP

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000091DUP

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000091DUP

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-69-4 | Trichlorofluoromethane | 2272.7 | U |
| 95-47-6 | o-Xylene | 616.50 | J |
| 108-38-3 | m,p-Xylene | 2995.1 | |
| 67-64-1 | Acetone | 47388 | |
| 78-93-3 | 2-Butanone | 4777.0 | |
| 108-10-1 | Methyl Isobutyl Ketone | 6595400 | |
| 591-78-6 | 2-Hexanone | 33340 | |
| 71-36-3 | n-Butanol | 1648000 | |
| 540-59-0 | Total 1,2-Dichloroethene | 2272.7 | U |
| 1330-20-7 | Total Xylenes | 2378.6 | |
| 76-13-1 | Freon 113 | 2272.7 | U |
| 79-20-9 | Methyl Acetate | 2272.7 | U |
| 75-15-0 | Carbon Disulfide | 2272.7 | U |
| 1735-17-7 | Cyclohexane | 310.63 | J |
| 109-99-9 | Tetrahydrofuran | 5240.0 | |
| 107-87-9 | 2-Pentanone | 4259.4 | |
| 10061-01-5 | cis-1,3-dichloropropene | 2272.7 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 2272.7 | U |
| 1634-04-4 | tert-Butyl-Methyl Ether | 2272.7 | U |
| 108-87-2 | Methylcyclohexane | 2272.7 | U |
| THM | Total Trihalomethanes | 466.90 | J |
| 95-50-1 | 1,2-Dichlorobenzene | 2272.7 | U |

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000091MS

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000091MS

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000091SPK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 71-36-3 | Dichlorodifluoromethane | 2083.3 | U |
| 74-87-3 | Chloromethane | 2083.3 | U |
| 75-01-4 | Vinyl Chloride | 2083.3 | U |
| 74-83-9 | Bromomethane | 2083.3 | U |
| 71-43-2 | Benzene | 44041 | |
| 75-27-4 | Bromodichloromethane | 2083.3 | U |
| 75-25-2 | Bromoform | 2083.3 | U |
| 56-23-5 | Carbon Tetrachloride | 2083.3 | U |
| 108-90-7 | Chlorobenzene | 36366 | |
| 75-00-3 | Chloroethane | 2083.3 | U |
| 67-66-3 | Chloroform | 2083.3 | U |
| 124-48-1 | Dibromochloromethane | 568.57 | J |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2083.3 | U |
| 106-93-4 | 1,2-Dibromoethane | 2083.3 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 2083.3 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 2083.3 | U |
| 75-34-3 | 1,1-Dichloroethane | 2083.3 | U |
| 107-06-2 | 1,2-Dichloroethane | 2083.3 | U |
| 75-35-4 | 1,1-Dichloroethene | 44306 | |
| 156-59-2 | cis-1,2-Dichloroethene | 2083.3 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 2083.3 | U |
| 78-87-5 | 1,2-Dichloropropane | 2083.3 | U |
| 100-41-4 | Ethylbenzene | 6828.9 | |
| 98-82-8 | Isopropylbenzene | 574.85 | J |
| 75-09-2 | Methylene Chloride | 2083.3 | U |
| 100-42-5 | Styrene | 2451.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2083.3 | U |
| 127-18-4 | Tetrachloroethene | 2083.3 | U |
| 108-88-3 | Toluene | 39142 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2083.3 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 2083.3 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5907.5 | |
| 79-01-6 | Trichloroethene | 40116 | |

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000091MS

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000091MS

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000091SPK

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-69-4 | Trichlorofluoromethane | 2083.3 | U |
| 95-47-6 | o-Xylene | 225.66 | J |
| 108-38-3 | m,p-Xylene | 4080.2 | |
| 67-64-1 | Acetone | 56591 | |
| 78-93-3 | 2-Butanone | 8283.7 | |
| 108-10-1 | Methyl Isobutyl Ketone | 7445800 | |
| 591-78-6 | 2-Hexanone | 46503 | |
| 71-36-3 | n-Butanol | 1731700 | |
| 540-59-0 | Total 1,2-Dichloroethene | 2083.3 | U |
| 1330-20-7 | Total Xylenes | 4305.8 | |
| 76-13-1 | Freon 113 | 2083.3 | U |
| 79-20-9 | Methyl Acetate | 2083.3 | U |
| 75-15-0 | Carbon Disulfide | 2083.3 | U |
| 1735-17-7 | Cyclohexane | 2083.3 | U |
| 109-99-9 | Tetrahydrofuran | 4345.0 | |
| 107-87-9 | 2-Pentanone | 7195.9 | |
| 10061-01-5 | cis-1,3-dichloropropene | 2083.3 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 2083.3 | U |
| 1634-04-4 | tert-Butyl-Methyl Ether | 2083.3 | U |
| 108-87-2 | Methylcyclohexane | 2083.3 | U |
| THM | Total Trihalomethanes | 568.57 | J |
| 95-50-1 | 1,2-Dichlorobenzene | 2083.3 | U |

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000092

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000092

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000092

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 71-36-3 | Dichlorodifluoromethane | 2777.8 | U |
| 74-87-3 | Chloromethane | 2777.8 | U |
| 75-01-4 | Vinyl Chloride | 2777.8 | U |
| 74-83-9 | Bromomethane | 2777.8 | U |
| 71-43-2 | Benzene | 3552.0 | |
| 75-27-4 | Bromodichloromethane | 2777.8 | U |
| 75-25-2 | Bromoform | 2777.8 | U |
| 56-23-5 | Carbon Tetrachloride | 2777.8 | U |
| 108-90-7 | Chlorobenzene | 1120.8 | J |
| 75-00-3 | Chloroethane | 2777.8 | U |
| 67-66-3 | Chloroform | 2777.8 | U |
| 124-48-1 | Dibromochloromethane | 464.15 | J |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2777.8 | U |
| 106-93-4 | 1,2-Dibromoethane | 2777.8 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 2777.8 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 2777.8 | U |
| 75-34-3 | 1,1-Dichloroethane | 2777.8 | U |
| 107-06-2 | 1,2-Dichloroethane | 2777.8 | U |
| 75-35-4 | 1,1-Dichloroethene | 3375.0 | |
| 156-59-2 | cis-1,2-Dichloroethene | 2777.8 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 2777.8 | U |
| 78-87-5 | 1,2-Dichloropropane | 2777.8 | U |
| 100-41-4 | Ethylbenzene | 5194.7 | |
| 98-82-8 | Isopropylbenzene | 462.68 | J |
| 75-09-2 | Methylene Chloride | 2777.8 | U |
| 100-42-5 | Styrene | 3259.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2777.8 | U |
| 127-18-4 | Tetrachloroethene | 2777.8 | U |
| 108-88-3 | Toluene | 3418.1 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2777.8 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 2777.8 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 79507 | |
| 79-01-6 | Trichloroethene | 3167.0 | |

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000092

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000092

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000092

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-69-4 | Trichlorofluoromethane | 2777.8 | U |
| 95-47-6 | o-Xylene | 1457.0 | J |
| 108-38-3 | m,p-Xylene | 2547.2 | J |
| 67-64-1 | Acetone | 59588 | |
| 78-93-3 | 2-Butanone | 4061.0 | |
| 108-10-1 | Methyl Isobutyl Ketone | 9793600 | |
| 591-78-6 | 2-Hexanone | 33576 | |
| 71-36-3 | n-Butanol | 1644700 | |
| 540-59-0 | Total 1,2-Dichloroethene | 2777.8 | U |
| 1330-20-7 | Total Xylenes | 1090.0 | J |
| 76-13-1 | Freon 113 | 2777.8 | U |
| 79-20-9 | Methyl Acetate | 4323.0 | |
| 75-15-0 | Carbon Disulfide | 605.94 | J |
| 1735-17-7 | Cyclohexane | 2777.8 | U |
| 109-99-9 | Tetrahydrofuran | 6559.0 | |
| 107-87-9 | 2-Pentanone | 3065.9 | |
| 10061-01-5 | cis-1,3-dichloropropene | 2777.8 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 2777.8 | U |
| 1634-04-4 | tert-Butyl-Methyl Ether | 2777.8 | U |
| 108-87-2 | Methylcyclohexane | 2777.8 | U |
| THM | Total Trihalomethanes | 464.15 | J |
| 95-50-1 | 1,2-Dichlorobenzene | 2777.8 | U |

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000093

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000093

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000093

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 71-36-3 | Dichlorodifluoromethane | 3125.0 | U |
| 74-87-3 | Chloromethane | 3125.0 | U |
| 75-01-4 | Vinyl Chloride | 3125.0 | U |
| 74-83-9 | Bromomethane | 3125.0 | U |
| 71-43-2 | Benzene | 3125.0 | U |
| 75-27-4 | Bromodichloromethane | 3125.0 | U |
| 75-25-2 | Bromoform | 3125.0 | U |
| 56-23-5 | Carbon Tetrachloride | 3125.0 | U |
| 108-90-7 | Chlorobenzene | 71.408 | J |
| 75-00-3 | Chloroethane | 3125.0 | U |
| 67-66-3 | Chloroform | 3125.0 | U |
| 124-48-1 | Dibromochloromethane | 374.73 | J |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 3125.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 3125.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 3125.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 3125.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 3125.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 3125.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 3125.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 3125.0 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 3125.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 3125.0 | U |
| 100-41-4 | Ethylbenzene | 3889.3 | |
| 98-82-8 | Isopropylbenzene | 367.91 | J |
| 75-09-2 | Methylene Chloride | 3125.0 | U |
| 100-42-5 | Styrene | 3125.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 3125.0 | U |
| 127-18-4 | Tetrachloroethene | 3125.0 | U |
| 108-88-3 | Toluene | 1630.8 | J |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3125.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 3125.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 57034 | |
| 79-01-6 | Trichloroethene | 3125.0 | U |

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000093

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000093

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000093

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-69-4 | Trichlorofluoromethane | 3125.0 | U |
| 95-47-6 | o-Xylene | 2534.0 | J |
| 108-38-3 | m,p-Xylene | 1347.9 | J |
| 67-64-1 | Acetone | 153350 | |
| 78-93-3 | 2-Butanone | 4464.6 | |
| 108-10-1 | Methyl Isobutyl Ketone | 13733000 | |
| 591-78-6 | 2-Hexanone | 22182 | |
| 71-36-3 | n-Butanol | 1691900 | |
| 540-59-0 | Total 1,2-Dichloroethene | 3125.0 | U |
| 1330-20-7 | Total Xylenes | 1186.0 | J |
| 76-13-1 | Freon 113 | 3125.0 | U |
| 79-20-9 | Methyl Acetate | 5058.0 | |
| 75-15-0 | Carbon Disulfide | 3125.0 | U |
| 1735-17-7 | Cyclohexane | 3125.0 | U |
| 109-99-9 | Tetrahydrofuran | 3125.0 | U |
| 107-87-9 | 2-Pentanone | 547.61 | J |
| 10061-01-5 | cis-1,3-dichloropropene | 3125.0 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 3125.0 | U |
| 1634-04-4 | tert-Butyl-Methyl Ether | 3125.0 | U |
| 108-87-2 | Methylcyclohexane | 3125.0 | U |
| THM | Total Trihalomethanes | 374.73 | J |
| 95-50-1 | 1,2-Dichlorobenzene | 3125.0 | U |

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000094

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000094

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000094

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 71-36-3 | Dichlorodifluoromethane | 3571.4 | U |
| 74-87-3 | Chloromethane | 3571.4 | U |
| 75-01-4 | Vinyl Chloride | 3571.4 | U |
| 74-83-9 | Bromomethane | 3571.4 | U |
| 71-43-2 | Benzene | 3571.4 | U |
| 75-27-4 | Bromodichloromethane | 3571.4 | U |
| 75-25-2 | Bromoform | 3571.4 | U |
| 56-23-5 | Carbon Tetrachloride | 3571.4 | U |
| 108-90-7 | Chlorobenzene | 3571.4 | U |
| 75-00-3 | Chloroethane | 3571.4 | U |
| 67-66-3 | Chloroform | 4588.0 | |
| 124-48-1 | Dibromochloromethane | 547.44 | J |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 3571.4 | U |
| 106-93-4 | 1,2-Dibromoethane | 3571.4 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 3571.4 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 3571.4 | U |
| 75-34-3 | 1,1-Dichloroethane | 3571.4 | U |
| 107-06-2 | 1,2-Dichloroethane | 3571.4 | U |
| 75-35-4 | 1,1-Dichloroethene | 3571.4 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 3571.4 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 3571.4 | U |
| 78-87-5 | 1,2-Dichloropropane | 3571.4 | U |
| 100-41-4 | Ethylbenzene | 5806.0 | |
| 98-82-8 | Isopropylbenzene | 788.03 | J |
| 75-09-2 | Methylene Chloride | 3571.4 | U |
| 100-42-5 | Styrene | 4271.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 3571.4 | U |
| 127-18-4 | Tetrachloroethene | 3571.4 | U |
| 108-88-3 | Toluene | 8435.5 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3571.4 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 3571.4 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 54879 | |
| 79-01-6 | Trichloroethene | 3571.4 | U |

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000094

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000094

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000094

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-69-4 | Trichlorofluoromethane | 3571.4 | U |
| 95-47-6 | o-Xylene | 1841.0 | J |
| 108-38-3 | m,p-Xylene | 2460.7 | J |
| 67-64-1 | Acetone | 52254 | |
| 78-93-3 | 2-Butanone | 3698.6 | |
| 108-10-1 | Methyl Isobutyl Ketone | 18155000 | |
| 591-78-6 | 2-Hexanone | 33406 | |
| 71-36-3 | n-Butanol | 1316400 | |
| 540-59-0 | Total 1,2-Dichloroethene | 3571.4 | U |
| 1330-20-7 | Total Xylenes | 619.36 | J |
| 76-13-1 | Freon 113 | 3571.4 | U |
| 79-20-9 | Methyl Acetate | 5834.0 | |
| 75-15-0 | Carbon Disulfide | 3571.4 | U |
| 1735-17-7 | Cyclohexane | 3571.4 | U |
| 109-99-9 | Tetrahydrofuran | 8864.0 | |
| 107-87-9 | 2-Pentanone | 1060.9 | J |
| 10061-01-5 | cis-1,3-dichloropropene | 3571.4 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 3571.4 | U |
| 1634-04-4 | tert-Butyl-Methyl Ether | 3571.4 | U |
| 108-87-2 | Methylcyclohexane | 3571.4 | U |
| THM | Total Trihalomethanes | 4040.0 | |
| 95-50-1 | 1,2-Dichlorobenzene | 3571.4 | U |

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000095

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000095

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000095

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 71-36-3 | Dichlorodifluoromethane | 8333.3 | U |
| 74-87-3 | Chloromethane | 8333.3 | U |
| 75-01-4 | Vinyl Chloride | 8333.3 | U |
| 74-83-9 | Bromomethane | 8333.3 | U |
| 71-43-2 | Benzene | 8333.3 | U |
| 75-27-4 | Bromodichloromethane | 8333.3 | U |
| 75-25-2 | Bromoform | 8333.3 | U |
| 56-23-5 | Carbon Tetrachloride | 8333.3 | U |
| 108-90-7 | Chlorobenzene | 8333.3 | U |
| 75-00-3 | Chloroethane | 8333.3 | U |
| 67-66-3 | Chloroform | 8333.3 | U |
| 124-48-1 | Dibromochloromethane | 627.44 | J |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 8333.3 | U |
| 106-93-4 | 1,2-Dibromoethane | 8333.3 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 8333.3 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8333.3 | U |
| 75-34-3 | 1,1-Dichloroethane | 8333.3 | U |
| 107-06-2 | 1,2-Dichloroethane | 8333.3 | U |
| 75-35-4 | 1,1-Dichloroethene | 8333.3 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 8333.3 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 8333.3 | U |
| 78-87-5 | 1,2-Dichloropropane | 8333.3 | U |
| 100-41-4 | Ethylbenzene | 8503.9 | |
| 98-82-8 | Isopropylbenzene | 1047.6 | J |
| 75-09-2 | Methylene Chloride | 8333.3 | U |
| 100-42-5 | Styrene | 10190 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 8333.3 | U |
| 127-18-4 | Tetrachloroethene | 8333.3 | U |
| 108-88-3 | Toluene | 1798.0 | J |
| 120-82-1 | 1,2,4-Trichlorobenzene | 8333.3 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 8333.3 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 82496 | |
| 79-01-6 | Trichloroethene | 8333.3 | U |

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S01M000095

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000095

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000095

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-69-4 | Trichlorofluoromethane | 8333.3 | U |
| 95-47-6 | o-Xylene | 7277.0 | J |
| 108-38-3 | m,p-Xylene | 1986.7 | J |
| 67-64-1 | Acetone | 59152 | |
| 78-93-3 | 2-Butanone | 10370 | |
| 108-10-1 | Methyl Isobutyl Ketone | 26605000 | |
| 591-78-6 | 2-Hexanone | 26208 | |
| 71-36-3 | n-Butanol | 1498200 | |
| 540-59-0 | Total 1,2-Dichloroethene | 8333.3 | U |
| 1330-20-7 | Total Xylenes | 5290.0 | J |
| 76-13-1 | Freon 113 | 8333.3 | U |
| 79-20-9 | Methyl Acetate | 14030 | |
| 75-15-0 | Carbon Disulfide | 8333.3 | U |
| 1735-17-7 | Cyclohexane | 8333.3 | U |
| 109-99-9 | Tetrahydrofuran | 21980 | |
| 107-87-9 | 2-Pentanone | 6412.0 | J |
| 10061-01-5 | cis-1,3-dichloropropene | 8333.3 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 8333.3 | U |
| 1634-04-4 | tert-Butyl-Methyl Ether | 8333.3 | U |
| 108-87-2 | Methylcyclohexane | 8333.3 | U |
| THM | Total Trihalomethanes | 627.44 | J |
| 95-50-1 | 1,2-Dichlorobenzene | 8333.3 | U |

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

BLANK

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: BLANK

Sample wt/vol: 0.0 (g/mL) G Lab File ID: VBLNK1

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 4.82 | 80693 | J |
| 2. | UNKNOWN | 5.06 | 942720 | J |
| 3. | UNKNOWN | 5.41 | 1053100 | J |
| 4. 17983-71-0 | ACETAMIDE, N-[4-(TRIMETHYLSI | 36.98 | 69210 | NJ |
| 5. 541-05-9 | CYCLOTRISILOXANE, HEXAMETHYL | 40.84 | 380940 | NJ |
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

LCS1

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: LCS1

Sample wt/vol: 1.0 (g/mL) G Lab File ID: LCS1

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 5

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN | 4.82 | 659.28 | J |
| 2. | | UNKNOWN | 5.06 | 13713 | J |
| 3. | 3789-85-3 | BENZOIC ACID, 2-[(TRIMETHYLS | 32.13 | 354.67 | NJ |
| 4. | 16654-74-3 | 3,6,9-TRIOXA-2,10-DISILAUNDE | 35.50 | 942.99 | NJ |
| 5. | 541-05-9 | CYCLOTRISILOXANE, HEXAMETHYL | 40.90 | 3516.8 | NJ |
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000091

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000091

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000091

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 5.08 | 1152800 | J |
| 2. 108-10-1 | METHYL ISOBUTYL KETONE | 20.56 | 9224100 | NJ |
| 3. 1632-16-2 | HEPTANE, 3-METHYLENE- | 20.97 | 326830 | NJ |
| 4. 7300-03-0 | 3-HEPTENE, 3-METHYL- | 21.25 | 209600 | NJ |
| 5. 1632-16-2 | HEPTANE, 3-METHYLENE- | 21.38 | 141350 | NJ |
| 6. 61847-80-1 | 1-PENTENE, 3-ETHYL-4-METHYL- | 21.72 | 236790 | NJ |
| 7. 142-96-1 | N-BUTYL ETHER | 24.76 | 220850 | NJ |
| 8. 106-35-4 | 3-HEPTANONE | 26.22 | 389530 | NJ |
| 9. 124-18-5 | DECANE | 28.67 | 713720 | NJ |
| 10. 591-68-4 | PENTANOIC ACID, BUTYL ESTER | 30.66 | 83964 | NJ |
| 11. 104-76-7 | 1-HEXANOL, 2-ETHYL- | 30.80 | 257020 | NJ |
| 12. 1120-21-4 | UNDECANE | 31.45 | 3262600 | NJ |
| 13. 2958-76-1 | NAPHTHALENE, DECAHYDRO-2-MET | 32.68 | 156310 | NJ |
| 14. 62108-25-2 | DECANE, 2,6,7-TRIMETHYL- | 33.06 | 284010 | NJ |
| 15. 112-40-3 | DODECANE | 33.60 | 1764900 | NJ |
| 16. 7116-86-1 | 1-HEXENE, 5,5-DIMETHYL- | 33.75 | 91453 | NJ |
| 17. 62237-97-2 | DECANE, 2,2,6-TRIMETHYL- | 34.09 | 114740 | NJ |
| 18. 2051-30-1 | OCTANE, 2,6-DIMETHYL- | 34.22 | 170520 | NJ |
| 19. 7367-38-6 | 4-NONENE, 5-BUTYL- | 34.82 | 107720 | NJ |
| 20. 629-50-5 | TRIDECANE | 35.42 | 324460 | NJ |
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000091DUP

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000091DUP

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000091DUP

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 5.08 | 809830 | J |
| 2. 108-10-1 | METHYL ISOBUTYL KETONE | 20.56 | 10594000 | NJ |
| 3. 14919-01-8 | 3-OCTENE, (E)- | 21.01 | 342250 | NJ |
| 4. 0-00-0 | 5-METHYL-3-HEPTENE | 21.27 | 256760 | NJ |
| 5. 1632-16-2 | HEPTANE, 3-METHYLENE- | 21.40 | 164190 | NJ |
| 6. 61847-80-1 | 1-PENTENE, 3-ETHYL-4-METHYL- | 21.74 | 277450 | NJ |
| 7. 142-96-1 | N-BUTYL ETHER | 24.76 | 234260 | NJ |
| 8. 106-35-4 | 3-HEPTANONE | 26.22 | 353000 | NJ |
| 9. 124-18-5 | DECANE | 28.68 | 754930 | NJ |
| 10. 591-68-4 | PENTANOIC ACID, BUTYL ESTER | 30.66 | 82662 | NJ |
| 11. 104-76-7 | 1-HEXANOL, 2-ETHYL- | 30.80 | 223310 | NJ |
| 12. 1120-21-4 | UNDECANE | 31.45 | 2638600 | NJ |
| 13. 2958-76-1 | NAPHTHALENE, DECAHYDRO-2-MET | 32.68 | 128900 | NJ |
| 14. 31295-56-4 | DODECANE, 2,6,11-TRIMETHYL- | 33.06 | 225170 | NJ |
| 15. 112-40-3 | DODECANE | 33.60 | 1355800 | NJ |
| 16. 2461-15-6 | OXIRANE, [[(2-ETHYLHEXYL)OXY | 33.75 | 100950 | NJ |
| 17. 17301-28-9 | UNDECANE, 3,6-DIMETHYL- | 33.87 | 90478 | NJ |
| 18. 62108-31-0 | HEPTANE, 4-ETHYL-2,2,6,6-TET | 34.09 | 86675 | NJ |
| 19. 2051-30-1 | OCTANE, 2,6-DIMETHYL- | 34.22 | 132170 | NJ |
| 20. 629-50-5 | TRIDECANE | 35.42 | 198240 | NJ |
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000092

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000092

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000092

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 5.09 | 1114200 | J |
| 2. 108-10-1 | METHYL ISOBUTYL KETONE | 20.57 | 10768000 | NJ |
| 3. 1632-16-2 | HEPTANE, 3-METHYLENE- | 20.98 | 376090 | NJ |
| 4. 7300-03-0 | 3-HEPTENE, 3-METHYL- | 21.26 | 249300 | NJ |
| 5. 1632-16-2 | HEPTANE, 3-METHYLENE- | 21.40 | 164110 | NJ |
| 6. 142-96-1 | N-BUTYL ETHER | 24.77 | 226510 | NJ |
| 7. 106-35-4 | 3-HEPTANONE | 26.23 | 371600 | NJ |
| 8. 124-18-5 | DECANE | 28.68 | 812020 | NJ |
| 9. 591-68-4 | PENTANOIC ACID, BUTYL ESTER | 30.67 | 91462 | NJ |
| 10. 104-76-7 | 1-HEXANOL, 2-ETHYL- | 30.81 | 254960 | NJ |
| 11. 1120-21-4 | UNDECANE | 31.45 | 3654300 | NJ |
| 12. 2958-76-1 | NAPHTHALENE, DECAHYDRO-2-MET | 32.69 | 174760 | NJ |
| 13. 5911-04-6 | NONANE, 3-METHYL- | 33.07 | 326290 | NJ |
| 14. 112-40-3 | DODECANE | 33.62 | 2218200 | NJ |
| 15. 106-67-2 | 1-PENTANOL, 2-ETHYL-4-METHYL | 33.75 | 108950 | NJ |
| 16. 17301-28-9 | UNDECANE, 3,6-DIMETHYL- | 33.87 | 101290 | NJ |
| 17. 17302-37-3 | DECANE, 2,2-DIMETHYL- | 34.10 | 134160 | NJ |
| 18. 594-38-7 | BUTANE, 2-IODO-2-METHYL- | 34.22 | 236330 | NJ |
| 19. 7367-38-6 | 4-NONENE, 5-BUTYL- | 34.83 | 143490 | NJ |
| 20. 629-50-5 | TRIDECANE | 35.42 | 495830 | NJ |
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000093

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000093

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000093

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 5.09 | 1023200 | J |
| 2. 108-10-1 | METHYL ISOBUTYL KETONE | 20.57 | 17483000 | NJ |
| 3. 1192-18-3 | CYCLOPENTANE, 1,2-DIMETHYL-, | 20.94 | 323120 | NJ |
| 4. 0-00-0 | 5-METHYL-3-HEPTENE | 21.24 | 202650 | NJ |
| 5. 142-96-1 | N-BUTYL ETHER | 24.76 | 184770 | NJ |
| 6. 106-35-4 | 3-HEPTANONE | 26.23 | 297020 | NJ |
| 7. 124-18-5 | DECANE | 28.67 | 821580 | NJ |
| 8. 104-76-7 | 1-HEXANOL, 2-ETHYL- | 30.80 | 212150 | NJ |
| 9. 1120-21-4 | UNDECANE | 31.44 | 4254400 | NJ |
| 10. 2958-76-1 | NAPHTHALENE, DECAHYDRO-2-MET | 32.69 | 196060 | NJ |
| 11. 31295-56-4 | DODECANE, 2,6,11-TRIMETHYL- | 33.07 | 387340 | NJ |
| 12. 112-40-3 | DODECANE | 33.62 | 3165400 | NJ |
| 13. 2461-18-9 | OXIRANE, [(DODECYLOXY)METHYL | 33.76 | 151320 | NJ |
| 14. 17301-23-4 | UNDECANE, 2,6-DIMETHYL- | 33.88 | 145290 | NJ |
| 15. 62108-31-0 | HEPTANE, 4-ETHYL-2,2,6,6-TET | 34.10 | 206870 | NJ |
| 16. 2051-30-1 | OCTANE, 2,6-DIMETHYL- | 34.23 | 333240 | NJ |
| 17. 7367-38-6 | 4-NONENE, 5-BUTYL- | 34.83 | 127660 | NJ |
| 18. 31295-56-4 | DODECANE, 2,6,11-TRIMETHYL- | 35.02 | 123610 | NJ |
| 19. 629-50-5 | TRIDECANE | 35.43 | 857540 | NJ |
| 20. 629-59-4 | TETRADECANE | 37.06 | 88590 | NJ |
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000094

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000094

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000094

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 5.09 | 1762600 | J |
| 2. 108-10-1 | METHYL ISOBUTYL KETONE | 20.59 | 22912000 | NJ |
| 3. 123-73-9 | 2-BUTENAL, (E)- | 20.94 | 357530 | NJ |
| 4. 0-00-0 | 5-METHYL-3-HEPTENE | 21.24 | 198930 | NJ |
| 5. 142-96-1 | N-BUTYL ETHER | 24.77 | 190260 | NJ |
| 6. 106-35-4 | 3-HEPTANONE | 26.22 | 899190 | NJ |
| 7. 123-05-7 | HEXANAL, 2-ETHYL- | 28.57 | 114010 | NJ |
| 8. 124-18-5 | DECANE | 28.68 | 1242500 | NJ |
| 9. 2847-72-5 | DECANE, 4-METHYL- | 29.38 | 87107 | NJ |
| 10. 104-76-7 | 1-HEXANOL, 2-ETHYL- | 30.81 | 393990 | NJ |
| 11. 1120-21-4 | UNDECANE | 31.44 | 5028000 | NJ |
| 12. 2958-76-1 | NAPHTHALENE, DECAHYDRO-2-MET | 32.69 | 218660 | NJ |
| 13. 2051-30-1 | OCTANE, 2,6-DIMETHYL- | 33.07 | 408950 | NJ |
| 14. 112-40-3 | DODECANE | 33.62 | 3438700 | NJ |
| 15. 74630-43-6 | 2-UNDECENE, 6-METHYL-, (Z)- | 33.76 | 187900 | NJ |
| 16. 17301-23-4 | UNDECANE, 2,6-DIMETHYL- | 33.87 | 195100 | NJ |
| 17. 1002-43-3 | UNDECANE, 3-METHYL- | 34.10 | 179850 | NJ |
| 18. 2051-30-1 | OCTANE, 2,6-DIMETHYL- | 34.23 | 263050 | NJ |
| 19. 7367-38-6 | 4-NONENE, 5-BUTYL- | 34.83 | 154530 | NJ |
| 20. 629-50-5 | TRIDECANE | 35.42 | 604680 | NJ |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

S01M000095

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix: (soil/water) SOIL Lab Sample ID: S01M000095

Sample wt/vol: 0.0 (g/mL) G Lab File ID: S01M000095

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 03/29/01

GC Column: ID: 2.00 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(mL) Soil Aliquot Volume: _____(uL)

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/Kg

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 5.09 | 3353800 | J |
| 2. 108-10-1 | METHYL ISOBUTYL KETONE | 20.53 | 35740000 | NJ |
| 3. 18641-73-1 | METHYLAMINE, N-(1-ETHYLPENTY | 20.91 | 582230 | NJ |
| 4. 7300-03-0 | 3-HEPTENE, 3-METHYL- | 21.23 | 326330 | NJ |
| 5. 106-35-4 | 3-HEPTANONE | 26.22 | 1125600 | NJ |
| 6. 123-05-7 | HEXANAL, 2-ETHYL- | 28.56 | 238010 | NJ |
| 7. 124-18-5 | DECANE | 28.67 | 2401400 | NJ |
| 8. 104-76-7 | 1-HEXANOL, 2-ETHYL- | 30.80 | 650790 | NJ |
| 9. 1120-21-4 | UNDECANE | 31.43 | 11198000 | NJ |
| 10. 2958-76-1 | NAPHTHALENE, DECAHYDRO-2-MET | 32.69 | 456140 | NJ |
| 11. 31295-56-4 | DODECANE, 2,6,11-TRIMETHYL- | 33.07 | 865310 | NJ |
| 12. 112-40-3 | DODECANE | 33.62 | 8946300 | NJ |
| 13. 74630-43-6 | 2-UNDECENE, 6-METHYL-, (Z)- | 33.76 | 459780 | NJ |
| 14. 17301-23-4 | UNDECANE, 2,6-DIMETHYL- | 33.87 | 463110 | NJ |
| 15. 1002-43-3 | UNDECANE, 3-METHYL- | 34.10 | 483740 | NJ |
| 16. 2051-30-1 | OCTANE, 2,6-DIMETHYL- | 34.23 | 650970 | NJ |
| 17. 7367-38-6 | 4-NONENE, 5-BUTYL- | 34.83 | 436140 | NJ |
| 18. 31295-56-4 | DODECANE, 2,6,11-TRIMETHYL- | 35.02 | 226020 | NJ |
| 19. 629-50-5 | TRIDECANE | 35.42 | 1715900 | NJ |
| 20. 527-55-9 | 1,3-BENZENEDIOL, 4,5-DIMETHY | 37.89 | 209470 | NJ |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

FORM 2
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Level:(low/med) LOW

| | CLIENT SAMPLE NO. | SMC1 (BFB)# | SMC2 # | SMC3 (TOL)# | OTHER (DCE)# | TOT OUT |
|---|---|---|---|---|---|---|
| 01 | BLANK | 104 | 96 | 103 | 104 | 0 |
| 02 | LCS1 | 100 | 92 | 103 | 100 | 0 |
| 03 | S01M000091 | 121 | 97 | 97 | 101 | 0 |
| 04 | S01M000091DU | 104 | 86 | 97 | 89 | 0 |
| 05 | S01M000091MS | 113 | 110 | 120 | 115 | 0 |
| 06 | S01M000092 | 103 | 108 | 103 | 110 | 0 |
| 07 | S01M000093 | 110 | 113 | 103 | 112 | 0 |
| 08 | S01M000094 | 110 | 111 | 96 | 117 | 0 |
| 09 | S01M000095 | 118 | 108 | 102 | 108 | 0 |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
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| 24 | | | | | | |
| 25 | | | | | | |
| 26 | | | | | | |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | | |

| | | QC LIMITS |
|---|---|---|
| SMC1 (BFB) | = Bromofluorobenzene | (70-130) |
| SMC2 | = Dibromofluoromethane | (70-130) |
| SMC3 (TOL) | = Toluene-d8 | (70-130) |
| OTHER(DCE) | = 1,2-Dichloroethane-d4 | (50-130) |

# Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 3
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: 222-S LABORATORY Contract:

Lab Code: VOA Case No.: SAS No.: SDG No.: SDGA24843

Matrix Spike - Sample No.: S01M000091 Level:(low/med) LOW

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC # | QC. LIMITS REC. |
|---|---|---|---|---|---|
| Benzene | 41667 | 3060.0 | 44041 | 98 | 66-142 |
| Chlorobenzene | 41667 | 1168.8 | 36366 | 84 | 60-133 |
| 1,1-Dichloroethene | 41667 | 2965.0 | 44306 | 99 | 59-172 |
| Toluene | 41667 | 3380.9 | 39142 | 86 | 59-139 |
| Trichloroethene | 41667 | 2601.0 | 40116 | 90 | 62-137 |

# Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 5 outside limits

COMMENTS:

FH-0103068

ATTACHMENT 6

# CHAIN OF CUSTODY AND REQUEST FOR SAMPLE ANALYSIS FORMS

Consisting of 11 pages,
Including cover page

B01-040-05 1 of 7 RT 3.9.01

**Bechtel Hanford Inc.**

# CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

NA

Page ~~1 of 2~~

| | | | |
|---|---|---|---|
| Collector: Gale/Watson/Bowers | Company Contact: JAQUES ID | Telephone No.: 373-5299 | Project Coordinator: SJ Trent |
| Price Code: 9L | Data Turnaround: 21 Day | | |
| Project Designation: 276-S Hexone Tank Sludge | Sampling Location: 200 W | SAF No.: B01-040 | Air Quality ☐ |
| Ice Chest No.: 4H7 DOT TYPE A | Field Logbook No.: EI-1519 | COA: B276SK30C | Method of Shipment: Gov. Vehicle |
| Shipped To: 222S | Offsite Property No.: RSR 107065 | Bill of Lading/Air Bill No.: NA | |

**POSSIBLE SAMPLE HAZARDS/REMARKS**
Radioactive, Hexone, Hydrocarbon liquids

**Special Handling and/or Storage**
Cool to 4 degrees C.

| | | |
|---|---|---|
| Preservation | Cool | None |
| Type of Container | AG | AG X 01 |
| No. of Container(s) | 1 | 1 3 |
| Volume | 250ml | 60ml |
| SAMPLE ANALYSIS | SEE ITEM 1 | SEE ITEM 2 |

Sample #B11H72, B11H73, B11H74, B11H75 were sent to RCF for GEA analysis. The samples were picked up from RCF and transported to the 3728 Building.fPages 3 of 8 & 4 of 8 & 5 of 8 represent custody transfer of these samples. The samples were Re-Packaged, Given new Sample #s and a new COC was generated for analysis at 222-S Laboratory. Pages 1 of 8 and 2 of 8 represent changes made to original samples, and custody integrity.

Sample #B11D03,B11D04, B11D05, B11D06, B11D07 were sent to THE 3728 Building for storage prior to offsite shipment. Pages 6 of 8 & 7 of 8 & 8 of 8 represent custody transfer of these samples. The samples were Re-Packaged, Given new Sample #s and a new COC was generated for analysis at 222-S Laboratory. Pages 1 of 8 and 2 of 8 represent changes made to original samples, and custody integrity. RT 3.9.01

| Sample No. | Matrix * | Sample Date | Sample Time | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B11D03-A | Other Solid | 3/3/01 | 1300 | X | | TIETO: | B11H72 | | Original Sample # | | | B11D03 |
| B11D04-A | Other Solid | 3/3/01 | 1300 | X | | | B11H72 | | | | | B11D04 |
| B11D07-A | Other Solid | 3/7/01 | 1555 | X | | | B11H75 | | | | | B11D07 |
| B11D05-A | Other Solid | 3/4/01 | 1323 | X | | | B11H73 | | | | | B11D05 |
| B11D06-A | Other Solid | 3/7/01 | 0935 | X | | | B11H74 | | | | | B11D06 |

**CHAIN OF POSSESSION** — Sign/Print Names

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| R. Thoren | 1000 3-9-01 | Stored in Rm 1A 3728 | 1030 3-9-01 |
| Removed from RT 3-9-01 Rm 1A 3728 | 1200 3-9-01 | R Thoren | 1200 3-9-01 |
| R. Thoren | 1450 3-9-01 | | 3/9/01 1450 |
| | | | |
| | | | |
| | | | |

**SPECIAL INSTRUCTIONS**

1) VOA-8260A (TCL); VOA - 8260A (Add-on) {1-Butanil}; ICP Metals-6010A (TAL) ; ICP Metals-6010A (Add-on) {Arsenic, lead, selenium}; Mercury - 7471 - (CV);IC Anions - 300.0 {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate};Semi-VOA - 8270 (TCL). Semi-VOA--8270A (Add-on) {Tributyl Phosphate}; TPH-Diesel Range -WTPH - D;PCB-8082; pH (soil)-9045; Total Cyanide - 9010; Metals by ICP (TCLP) - 1311/6010; Mercury (TCLP) - 1311/7470.

~~2) Physical Properties Testing - Density, %Solids~~ RT 3.9.01

Please contact Steve Trent at 372-9651 prior to performing analysis - to confirm order of priority and detailed directi

RT 3.9.01

**Matrix ***
S=Soil
SE=Sediment
SO=Solid
S=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

| | | | |
|---|---|---|---|
| LABORATORY SECTION | Received By | Title | Date/Time |
| FINAL SAMPLE DISPOSITION | Disposal Method | Disposed By | Date/Time |

BHI-EE-011 (10/99)

000084

# CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

NA

Page 2 of 2

| | | | |
|---|---|---|---|
| Collector: Gale/Watson/Bowers | Company Contact: JaQUES, ID | Telephone No.: 373-5299 | Project Coordinator: SJ Trent |
| Project Designation: 276-S Hexone Tank Sludge | Sampling Location: 200 W | | SAF No.: B01-040 |
| Ice Chest No.: 4H2 DOT TYPE A | Field Logbook No.: EL1319 | COA: B276SX30C | Method of Shipment: GOV. vehicle |
| Shipped To: 222-S | Offsite Property No.: RSR 107065 | | Bill of Lading/Air Bill No.: NA |

Price Code: 9L

Data Turnaround: 21 Day

Air Quality ☐

POSSIBLE SAMPLE HAZARDS/REMARKS: Radioactive, Hexone, Hydrocarbon liquids

Special Handling and/or Storage: Cool to 4 degrees C.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Preservation | Cool 4C | None | | | | | | | | | |
| Type of Container | AG | AG | | | | | | | | | |
| No. of Container(s) | 1 | 1 | | | | | | | | | |
| Volume | 250ml | 60ml | | | | | | | | | |
| SAMPLE ANALYSIS | See Item 1 | See Item 2 | | | | | | | | | |

TCTO

| Sample No. | Matrix * | Sample Date | Sample Time | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B11H74-A | other solid | 3-7-01 | 0935 | | X | B11H74 | | | Original sample # | | | B11H74 |
| B11H75-A | other solid | 3-7-01 | 1555 | | X | B11H75 | | | | | | B11H75 |
| B11H72-A | other solid | 3-3-01 | 1330 | | X | B11H72 | | | | | | B11H72 |
| B11H73-A | other solid | 3-4-01 | 1323 | | X | B11H73 | | | | | | B11H73 |

## CHAIN OF POSSESSION

RT Sign/Print Names

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| R. Thoren | 3-9-01 1300 | Storedin RCT 1A 3728 | 3-9-01 1000 |
| Removed from RCT 1A 3728 | 3-9-01 1200 | R. Thoren | 3-9-01 1200 |
| R. Thoren | 3-9-01 1550 | [illegible] | 3/9/01 ASU |
| | | | |
| | | | |
| | | | |

## SPECIAL INSTRUCTIONS

1) ~~VOA-8260A (TCL); VOA-8260A (Add-on) (1-Butanil); ICP Metals-6010A (TAL); ICP Metals-6010A (Add-on) (Arsenic, lead, selenium); Mercury-7471 (CV); IC Anions-300.0 (Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate); Semi-VOA-8270 (TCL); Semi-VOA-8270A (Add-on) (Tributyl Phosphate); TPH-Diesel Range-WTPH-D; PCB-8082; pH (soil)-9045; Total Cyanide-9010; Metals by ICP (TCLP)-1311/6010; Mercury (TCLP)-1311/7470.~~ RT 3.9.01

2) Physical Properties Testing - Density, %Solids

Please contact Steve Trent at 372-9651 prior to performing analysis - to confirm order of priority and detailed directions. RT 3.9.01

Matrix *: S=Soil, SE=Sediment, SO=Solid, S=Sludge, W=Water, O=Oil, A=Air, DS=Drum Solids, DL=Drum Liquids, T=Tissue, Wi=Wipe, L=Liquid, V=Vegetation, X=Other

| | | | |
|---|---|---|---|
| LABORATORY SECTION | Received By | Title | Date/Time |
| FINAL SAMPLE DISPOSITION | Disposal Method | Disposed By | Date/Time |

EE-011 (10/99)

0000085

| Bechtel Hanford Inc. | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | B01-040-05 | Page 1 of 1 |
|---|---|---|---|---|
| Collector: Gale/Watson / Bowers DL | Company Contact: Jacques, ID | Telephone No.: 373-5299 | Project Coordinator: TRENT, SJ | Price Code: 9L |
| Project Designation: 276-S Hexone Tank Sludge | Sampling Location: 200 West | | SAF No.: B01-040 | Air Quality: ☐ |
| Ice Chest No.: N/A ERC 00-010 | Field Logbook No.: EL-1519 | COA: B276SX130C | Method of Shipment: Government Vehicle | Data Turnaround: 24 Hours |
| Shipped To: Radiological Counting Facility | Offsite Property No.: N/A | | Bill of Lading/Air Bill No.: N/A | |

POSSIBLE SAMPLE HAZARDS/REMARKS: Hexone mixture

Special Handling and/or Storage

SAMPLE ANALYSIS

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Preservation | None | | | | | | | | | | | | |
| Type of Container | aG | | | | | | | | | | | | |
| No. of Container(s) | 1 | | | | | | | | | | | | |
| Volume | ~~50g~~ ~~RT 3-5-01~~ 60ml | | | | | | | | | | | | |
| Rad Screen | GEA | RT 3-5-01 | | | | | | | | | | | |
| | | | | | | RCF | | | | | | | |
| Sample No. | Matrix * | Sample Date | Sample Time | | | | | | | | | | |
| 4 B11H72 | OTHER SOLID | 3-3-01 | 1330 | X | | 9081 | | | | | | | |
| 4 ~~B11H73~~ | ~~OTHER SOLID~~ | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

CHAIN OF POSSESSION — Sign/Print Names

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Doug Bowers | 3-3-01 1810 | RT 3-5-01 Stored in Ref 1A 3728 | 3-3-01 1810 |
| RT 5-01 Removed from Ref 1A 3728 | 3-5-01 0400 | R.T. Thoren | 3-5-01 0400 |
| R.T. Thoren | 3-5-01 0920 | J Duffey | 3-5-01 0920 |
| Jerry Duffey J Duffey | 3-9-01 1215 | R.T. Thoren RT 3-9-01 | 3-9-01 1215 |
| NPW COC Generated | | | |

SPECIAL INSTRUCTIONS: Due to Hexone. RCF not opening Container

Samples stored in Ref.# 1A at the 3728 Shipping Facility on 3 13 01.
Collector not available to relinquish samples on 3 15 01 for shipment. RT 3-5-01

Matrix *: S=Soil, SE=Sediment, SO=Solid, S=Sludge, W=Water, O=Oil, A=Air, DS=Drum Solids, DL=Drum Liquids, T=Tissue, WI=Wipe, L=Liquid, V=Vegetation, X=Other

| LABORATORY SECTION | Received By | Title | Date/Time |
|---|---|---|---|
| FINAL SAMPLE DISPOSITION | Disposal Method | Disposed By | Date/Time |

BHI-EE-011 (10/99)

0000086

4078 RT 3.4.01

| Bechtel Hanford Inc. | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | B01-040-05 | Page ~~1 of 1~~ RT 3.4.01 |
|---|---|---|---|---|
| Collector: Gale/Watson/Bowers DL | Company Contact: Jacques, ID | Telephone No.: 373-5299 | Project Coordinator: TRENT, SJ | Price Code: 9L |
| Project Designation: 276-S Hexone Tank Sludge | Sampling Location: 200 West | | SAF No.: B01-040 | Air Quality ☐ |
| Ice Chest No.: N/A ~~ERO~~ RT3501 ERC 00-010 | Field Logbook No.: EL-1519 | COA: B276SX130C | Method of Shipment: Government Vehicle | Data Turnaround: 24 Hours |
| Shipped To: Radiological Counting Facility | Offsite Property No.: N/A | | Bill of Lading/Air Bill No.: N/A | |

POSSIBLE SAMPLE HAZARDS/REMARKS
Hexone Mixture

Special Handling and/or Storage

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Preservation | None | | | | | | | | | | |
| Type of Container | aG | | | | | | | | | | |
| No. of Container(s) | 1 | | | | | | | | | | |
| Volume | ~~60g~~ RT 3.5.01 60 ml | | | | | | | | | | |
| SAMPLE ANALYSIS | ~~Rad Screen~~ GeA | RT 3.5.01 | | | | | | | | | |
| | | | RCF | | | | | | | | |

| Sample No. | Matrix * | Sample Date | Sample Time | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 ~~B11H72~~ B2B 3-4-01 | ~~OTHER SOLID~~ | ~~3-4-01~~ | ~~1323~~ | ~~X~~ | | 9082 | | | | | | |
| 9 B11H73 | OTHER SOLID | 3-4-01 | 1323 | X | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |

| CHAIN OF POSSESSION | Sign/Print Names | | |
|---|---|---|---|
| Relinquished By: Doug Bowers | Date/Time: 3-4-01 1810 | Received By: Stored in Ref 1A 3728 | Date/Time: 3-4-01 1810 |
| Relinquished By: Removed from Ref 1A 3728 | Date/Time: 3.5.01 0400 | Received By: R Thoren | Date/Time: 3.5.01 0400 |
| Relinquished By: R Thoren | Date/Time: 3.5.01 0920 | Received By: J Duffey | Date/Time: 3-5-01 0920 |
| Relinquished By: J Duffey | Date/Time: 3-9-01 1215 | Received By: R Thoren | Date/Time: 3-9-01 1215 |
| Relinquished By: New COC | Date/Time: | Received By: Generator | Date/Time: |
| Relinquished By | Date/Time | Received By | Date/Time |

RT 3.5.01

SPECIAL INSTRUCTIONS
Due to Hexone. RCF not opening Container.

Samples stored in Ref.# 1A at the 3728 Shipping Facility on 3/4/01.
Collector not available to relinquish samples on 3/5/01 for shipment.
RT 3.5.01

Matrix *
S=Soil
SE=Sediment
SO=Solid
S=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

| LABORATORY SECTION | Received By | Title | Date/Time |
|---|---|---|---|
| FINAL SAMPLE DISPOSITION | Disposal Method | Disposed By | Date/Time |

BHI-EE-011 (10/99)

0000087

J0T10 3.9.0

| Bechtel Hanford Inc. | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | B01-040-06 | Page ~~1 of 1~~ RT 3.9.01 |
|---|---|---|---|---|
| Collector: Gale/Watson / Bowers DL | Company Contact: Jacques, ID | Telephone No.: 373-5299 | Project Coordinator: TRENT, SJ | Price Code: 9L; Data Turnaround: 24 Hours |
| Project Designation: 276-S Hexone Tank Sludge | Sampling Location: 200 West | | SAF No.: B01-040 | Air Quality ☐ |
| Ice Chest No.: ~~N/A~~ RT 3.8.01 ERC 99.024 | Field Logbook No.: EL-1519 | COA: B276SX130C | Method of Shipment: Government Vehicle | |
| Shipped To: Radiological Counting Facility | Offsite Property No.: ~~N/A~~ RT 3.8.01 HMSR 000916 | | Bill of Lading/Air Bill No.: N/A | |

POSSIBLE SAMPLE HAZARDS/REMARKS
Contains Hexone, Hydrocarbons, liquids, possible Corrosive

Special Handling and/or Storage

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Preservation | None | | | | | | | | | | |
| Type of Container | aG | | | | | | | | | | |
| No. of Container(s) | 1 | | | | | | | | | | |
| Volume | ~~60g~~ 60 ml RT 3.8.01 | | | | | | | | | | |
| SAMPLE ANALYSIS | ~~Delete~~ GEA- RT 3.8.01 | | | | | | | | | | |
| | | | | | | | | RCF | | | |
| Sample No. | Matrix * | Sample Date | Sample Time | | | | | | | | |
| 13 B11H74 | OTHER SOLID | 3-7-01 | 0935 | X | Approx | 40g | | 9102 | 36.3 | | |
| 14 B11H75 | OTHER SOLID | 3-7-01 | 1555 | X | Approx | 32g | | 9103 | ~~29~~ 29.2 RT 3.9.01 | | |

CHAIN OF POSSESSION

| Relinquished By | Date/Time | Sign/Print Names | Received By | Date/Time |
|---|---|---|---|---|
| Doug Bowers | 3-7-01 / 1830 | RT 3.8.01 ~~Received By~~ Stored in Ref 1A 3728 | 3-7-01 / 1830 | |
| RT 8.01 ~~Relinquished By~~ Removed from Ref 1A 3728 | 0850 3-8-01 | ~~Received By~~ R Thoren | 0850 3-8-01 | |
| R. Thoren | 0935 3-8-01 | J Duffey | 0935 3-8-01 | |
| Jerry Duffey | 0945 3-9-01 | R. Thoren | 0945 3-9-01 | |
| New COC Generated | | | | |

SPECIAL INSTRUCTIONS
RAD Screen analysis Changed To GEA Analysis Due to Possible Sample HAZARDS.

Samples stored in Ref.# 1A at the 3728 Shipping Facility on 3/7/01.
Collector not available to relinquish samples on 3/8/01 for shipment.
RT 3-8-01

Matrix *
S=Soil
SE=Sediment
SO=Solid
S=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

| LABORATORY SECTION | Received By | Title | Date/Time |
|---|---|---|---|
| FINAL SAMPLE DISPOSITION | Disposal Method | Disposed By | Date/Time |

BHI-EE-011 (10/99)

| Bechtel Hanford Inc. | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | B01-040-02 | Page 1 of 2 RT 3.4.01 RT 3.4.01 |
|---|---|---|---|---|
| Collector: Gale/Watson / Bowers DL | Company Contact: Jacques, ID | Telephone No.: 373-5299 | Project Coordinator: TRENT, SJ | Price Code: 9L; Data Turnaround: 21 Days |
| Project Designation: 276-S Hexone Tank Sludge | Sampling Location: 200 West | | SAF No.: B01-040 | Air Quality: [ ] |
| Ice Chest No. | Field Logbook No.: EL-1519 | COA: B276SX130C | Method of Shipment: FED EX | |
| Shipped To: ~~TMA~~/RECRA | Offsite Property No. | | Bill of Lading/Air Bill No. | |

**POSSIBLE SAMPLE HAZARDS/REMARKS**
Contains, Hexone, Hydrocarbon Mixture, possible corrosive

**Special Handling and/or Storage**

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Preservation | Cool 4C | None | | | | | | | | | | |
| Type of Container | aG | aG | | | | | | | | | | |
| No. of Container(s) | 1 | 1 | | | | | | | | | | |
| Volume | 250mL | 250mL | | | | | | | | | | |
| SAMPLE ANALYSIS | See item (1) in Special Instructions. & ADD on | See item (2) in Special Instructions. | | | | | | | | | | |

Samples stored in Ref.#_____ at the 3728 Shipping Facility on ___/___/___. Collector not available to relinquish samples on ___/___/___ for shipment.

| | Sample No. | Matrix * | Sample Date | Sample Time | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | B11D03 | OTHER SOLID | 3-3-01 | 1300 | X | | | B11H72 | | | | | | |
| 7 | B11D04 | OTHER SOLID | 3-3-01 | 1300 | X | | | B11H72 | | | | | | |
| 9 | ~~B11D05~~ | OTHER SOLID | | | | | | | | | | | | |
| 13 | B11D06 | OTHER SOLID | | | | | | | | | | | | |
| 14 | B11D07 | OTHER SOLID | | | | | | | | | | | | |

**CHAIN OF POSSESSION** — Sign/Print Names

| Relinquished By | Date/Time | Received By | Date/Time |
|---|---|---|---|
| Doug Bowers | 3-3-01/1810 | RT 3.5.01 Stored in RoF 1A 3728 | 3-3-01/1810 |
| RT 9.01 Remove Ofrom RoF 1A 3728 | 1000 3.9.01 | R. Thorne | 1000 3.9.01 |
| New COC Generated | | | |
| | | | |
| | | | |
| | | | |

**SPECIAL INSTRUCTIONS**

(1) VOA - 8260A (TCL); VOA - 8260A (Add-On) {1-Butanol}; ICP Metals - 6010A (TAL); ICP Metals - 6010A (Add-on) {Arsenic, Lead, Selenium}; Mercury - 7471 - (CV); IC Anions - 300.0 {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}; Semi-VOA - 8270A (TCL) RT 3.5.01
~~(2) Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}; Isotopic Uranium; Technetium-99; Strontium-89,90 -- Total Sr; Carbon-14, Tritium - H3; Total Uranium~~

(1) CONTINUED: SEMI-VOA -- 8270A (ADDON) {TRIBUTYL PHOSPHATE}; TPH-DIESEL RANGE - WTPH-D; PCB's - 8082; pH (SOIL) 9045; TOTAL CYANIDE - 9010; METALS BY ICP (TCLP) 1311/6010; MERCURY (TCLP) - 1311/7470

Matrix *: S=Soil, SE=Sediment, SO=Solid, S=Sludge, W=Water, O=Oil, A=Air, DS=Drum Solids, DL=Drum Liquids, T=Tissue, WI=Wipe, L=Liquid, V=Vegetation, X=Other

| LABORATORY SECTION | Received By | Title | Date/Time |
|---|---|---|---|
| FINAL SAMPLE DISPOSITION | Disposal Method | Disposed By | Date/Time |

BHI-EE-011 (10/99)

6800000

70+78

| Bechtel Hanford Inc. | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | B01-040-02 | Page 1 of 2 RT 3.9.01 |
|---|---|---|---|---|
| Collector: Gale/Watson / Bowers DL | Company Contact: Jacques, ID | Telephone No.: 373-5299 | Project Coordinator: TRENT, SJ | Price Code: 9L; Data Turnaround: 21 Days |
| Project Designation: 276-S Hexone Tank Sludge | Sampling Location: 200 West | | SAF No.: B01-040 | Air Quality ☐ |
| Ice Chest No. | Field Logbook No.: EL-1519 | COA: B276SX130C | Method of Shipment: FED EX | |
| Shipped To: ~~TMA~~/RECRA | Offsite Property No. | | Bill of Lading/Air Bill No. | |

DTB 3-4-01

POSSIBLE SAMPLE HAZARDS/REMARKS: Contains Hexone, Hydrocarbon mixture, possible Corrosive

Special Handling and/or Storage

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Preservation | Cool 4C | None | | | | | | | | | | |
| Type of Container | aG | aG | | | | | | | | | | |
| No. of Container(s) | 1 | 1 | | | | | | | | | | |
| Volume | 250mL | 250mL | | | | | | | | | | |
| SAMPLE ANALYSIS | See item (1) in Special Instructions. & ADD ON | See item (2) in Special Instructions. | | | | | | | | | | |

Samples stored in Ref.#____ at the 3728 Shipping Facility on ___/___/___. Collector not available to relinquish samples on ___/___/___ for shipment..

| | Sample No. | Matrix * | Sample Date | Sample Time | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | B11D03 DTB 3-4-01 | OTHER SOLID | | | | | | | | | | | | |
| 7 | B11D04 | OTHER SOLID | | | | | | | | | | | | |
| 9 | B11D05 | OTHER SOLID | 3-4-01 | ~~1323~~ RT 3.6.01 1523 | X | | | B11H73 | | | | | | |
| 13 | B11D06 DTB 3-4-01 | OTHER SOLID | | | | | | | | | | | | |
| 14 | B11D07 | OTHER SOLID | | | | | | | | | | | | |

| CHAIN OF POSSESSION | | Sign/Print Names | |
|---|---|---|---|
| Relinquished By: Doug Bowers | Date/Time: 3-4-01/1810 | Received By: S Yarrow | Date/Time: 3-4-01/1810 |
| Relinquished By: Removed from Ref 1A 3728 | Date/Time: 1000 3.9.01 | Received By: R Thora | Date/Time: 1000 3.9.01 |
| Relinquished By: New COC Generated | Date/Time: | Received By: | Date/Time: |
| Relinquished By: | Date/Time: | Received By: | Date/Time: |
| Relinquished By: | Date/Time: | Received By: | Date/Time: |
| Relinquished By: | Date/Time: | Received By: | Date/Time: |

FT 9.01

SPECIAL INSTRUCTIONS

(1) VOA - 8260A (TCL); VOA - 8260A (Add-On) {1-Butanol}; ICP Metals - 6010A (TAL); ICP Metals - 6010A (Add-on) {Arsenic, Lead, Selenium}; Mercury - 7471 - (CV); IC Anions - 300.0 {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}; Semi-VOA - 8270A (TCL)
~~(2) Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}; Isotopic Uranium; Technetium-99, Strontium-89,90 — Total Sr, Carbon-14; Tritium - H3; Total Uranium~~ RT 3.5.01

(1) CONTINUED: SEMI-VOA -- 8270A (ADDON) {TRIBUTYL PHOSPHATE}; TPH-DIESEL RANGE - WTPH-D; PCB's - 8082; pH (SOIL) 9045; TOTAL CYANIDE - 9010; METALS BY ICP (TCLP) 1311/6010; MERCURY (TCLP) - 1311/7470

Matrix *: S=Soil; SE=Sediment; SO=Solid; S=Sludge; W=Water; O=Oil; A=Air; DS=Drum Solids; DL=Drum Liquids; T=Tissue; WI=Wipe; L=Liquid; V=Vegetation; X=Other

| LABORATORY SECTION | Received By | Title | Date/Time |
|---|---|---|---|
| FINAL SAMPLE DISPOSITION | Disposal Method | Disposed By | Date/Time |

BHI-EE-011 (10/99)

0000000

| Bechtel Hanford Inc. | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | B01-040-02 | Page ~~1 of 2~~ RT 39. B2B 3-7-01 |
|---|---|---|---|---|
| Collector: Gale/Watson / Bowers DL | Company Contact: Jacques, ID | Telephone No.: 373-5299 | Project Coordinator: TRENT, SJ | Price Code: 9L |
| Project Designation: 276-S Hexone Tank Sludge | Sampling Location: 200 West | | SAF No.: B01-040 | Air Quality ☐ |
| Ice Chest No. | Field Logbook No.: EL-1519 | COA: B276SX130C | Method of Shipment: FED EX | Data Turnaround: 21 Days |
| Shipped To: TMA/~~RECRA~~ | Offsite Property No. | | Bill of Lading/Air Bill No. | |

**POSSIBLE SAMPLE HAZARDS/REMARKS**
RADIOACTIVE, FLAMMABLE, CORROSIVE

**Special Handling and/or Storage**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Preservation | Cool 4C | None | | | | | | | | | |
| Type of Container | aG | aG | | | | | | | | | |
| No. of Container(s) | 1 | 1 | | | | | | | | | |
| Volume | 250mL | 250mL | | | | | | | | | |
| SAMPLE ANALYSIS | See item (1) in Special Instructions. | See item (2) in Special Instructions. | | | | | | | | | |

| | Sample No. | Matrix * | Sample Date | Sample Time | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | ~~B11D03~~ | ~~OTHER SOLID~~ RT 3.9.01 | | | | | | | | | | | | |
| 7 | ~~B11D04~~ | ~~OTHER SOLID~~ RT 3.9.01 | | | | | | | | | | | | |
| 9 | ~~B11D05~~ | ~~OTHER SOLID~~ RT 3.9.01 | | | | | | | | | | | | |
| 13 | B11D06 | OTHER SOLID | 3-7-01 | 0935 | X | | | | | B11H74 | | | | |
| 14 | B11D07 | OTHER SOLID | 3-7-01 | 1555 | X | | | | | B11H75 | | | | |

| CHAIN OF POSSESSION | | Sign/Print Names | |
|---|---|---|---|
| Relinquished By: Doug Bowers / Doug Bowers | Date/Time: 3-7-01 / 1830 | Received By: Stored in Ref 1A 3728 | Date/Time: 3-7-01 / 1830 |
| Relinquished By: Remove Front Ref 1A 3728 | Date/Time: 1200 3.9.01 | Received By: R.T. Thomas | Date/Time: 1200 3.9.01 |
| Relinquished By: New COC generation | Date/Time: | Received By: | Date/Time: |
| Relinquished By | Date/Time | Received By | Date/Time |
| Relinquished By | Date/Time | Received By | Date/Time |
| Relinquished By | Date/Time | Received By | Date/Time |

**SPECIAL INSTRUCTIONS**

(1) VOA - 8260A (TCL); VOA - 8260A (Add-On) {1-Butanol}; ICP Metals - 6010A (TAL); ICP Metals - 6010A (Add-on) {Arsenic, Lead, Selenium}; Mercury - 7471 - (CV); IC Anions - 300.0 {Chloride, Fluoride, Nitrate, Nitrite, Phosphate, Sulfate}; Semi-VOA - 8270A (TCL)
(2) Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155}; Isotopic Uranium; Technetium-99; Strontium-89,90 – Total Sr; Carbon-14; Tritium - H3; Total Uranium

(1) CONTINUED: SEMI-VOA -- 8270A (ADDON) {TRIBUTYL PHOSPHATE}; TPH-DIESEL RANGE - WTPH-D; PCB'S - 8082; pH (SOIL) 9045; TOTAL CYANIDE - 9010; METALS BY ICP (TCLP) 1311/6010; MERCURY (TCLP) - 1311/7470

Matrix *
S=Soil
SE=Sediment
SO=Solid
S=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

| LABORATORY SECTION | Received By | Title | Date/Time |
|---|---|---|---|
| FINAL SAMPLE DISPOSITION | Disposal Method | Disposed By | Date/Time |

BHI-EE-011 (10/99)

000091

# REQUEST FOR SAMPLE ANALYSIS (RSA)

Group ID No. (For lab use only)

| 1. Sample Origin | 2. Date Sampled | 4. Requestor's Name | 6. CACN/COA | 7. Cost Center |
|---|---|---|---|---|
| 276-S Hexone Tanks | 3-7-01 | S J TRENT | 115744/ES20 | |

| Customer/Project Code | 3. Submitted By | 5. Requestor's Phone/MSIN/FAX |
|---|---|---|
| | R. Thoren | 372-9651/H9-03/372-9487 |

| 8. Customer ID No. | 9. Laboratory Sample No. | 10. Volume of Sample | 11. Matrix of Sample | 12. Requested Analyses | 13. Expected Range |
|---|---|---|---|---|---|
| ✓ B11H74-A | | ~40g | sludge | See chain of custody | 1, 2 |
| ✓ B11H75-A | | ~32g | sludge | " | " |
| ✓ B11D06-A | | ~199g | sludge | " | " |
| ✓ B11D07-A | | ~143g | sludge | " | " |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

14. Does sample have a MSDS?

○ Yes HEHF assigned MSDS No. _____

☑ No Description of process that produced waste/sample:

Samples from 276-S tank 142 tank heel

Will radiochemistry results be used for unconditional release? ○ Yes ☑ No

15. Is this sample RCRA listed? ○ Yes ☑ No

Applicable Listed Waste Codes:

○ Yes ○ No P Codes: (list) _____

○ Yes ○ No U Codes: (list) _____

○ Yes ○ No K Codes: (list) _____

○ Yes ○ No F Codes: (list) _____

Applicable Characteristic Codes:

○ Yes ○ No D001: (how determined) _____ Ignitable

○ Yes ○ No D002: (how determined) _____ Corrosive

○ Yes ○ No D003: (how determined) _____ Reactive

○ Yes ○ No Toxic: (list codes) _____

PCB: Does this waste/sample contain PCBs?

☐ Yes Over 500 ppm

☐ Yes Over 50 ppm

☑ Yes PCBs are suspected

☐ No PCBs are suspected

If YES, what is the source of the PCBs?

☐ Transformer, capacitor, or ballast

☐ Other, specify _____

☑ Unknown

16. Sample Disposition

☑ Return to Customer

☐ Samples found to contain PCBs will be returned to the customer

☐ Dispose of per facility procedures with applied charges for analyses and disposal

Sample(s) Dose Rate at Contact: <0.5 mrem/hr

HPT Signature: [signature]

17. QC Required ☑ Per 222-S Laboratory Quality Assurance Plan (HNF-SD-CP-QAPP-016)

☑ Other (list reference document or attach) LOI for the 276-S Hexone Tank stabilization samp

18. Special Instructions (Special Storage Requirements, Reporting format, holding times, etc.)

1) See attachment for GEA screen results

2) Pu content for all samples estimated $< 1.0 \times 10^{-3}$ g

19. Requested Turnaround Time Analysis

☐ 2 Weeks ☐ 4 Weeks

☑ Other 45 days interim/ 60 days Final

20. Sample Received By: [signature] Date 3/9/01 Time 1450

21. Chain of Custody

○ No ○ Yes

Number: _____

0000002 A-6002-365 (01/99)

# REQUEST FOR SAMPLE ANALYSIS (RSA)

Group ID No. (For Laboratory Use Only)

| 1. Sample Origin | 2. Date Sampled | 4. Requestor's Name | 6. CACN/COA | 7. Cost Center |
|---|---|---|---|---|
| 276-5 Hexone Tanks | 3/3/01 | S J Trent | 115744/E520 | |

| Customer/Project Code | 3. Submitted By | 5. Requestor's Phone/MSIN/FAX |
|---|---|---|
| | R. Thoren | 372-9651/H9-03/372-9487 |

| 8. Customer ID No. | 9. Laboratory Sample No. | 10. Volume of Sample | 11. Matrix of Sample | 12. Requested Analyses | 13. Expected Range |
|---|---|---|---|---|---|
| B11H72-A | | ~43g | sludge | see chain of custody | 1, 2 |
| B11H73-A | | ~30g | sludge | " | " |
| B11D03-A | | ~250g | sludge | " | " |
| B11D04-A | | ~250g | sludge | " | " |
| B11D05-A | | ~250g | sludge | " | " |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

14. Does sample have a MSDS?

○ Yes HEHF assigned MSDS No. _____

☒ No Description of process that produced waste/sample:

Samples from 276-5 Tank 141 tank heel

Will radiochemistry results be used for unconditional release? ○ Yes ☒ No

15. Is this sample RCRA listed? ○ Yes ☒ No

Applicable Listed Waste Codes:

○ Yes ○ No P Codes: (list) _____

○ Yes ○ No U Codes: (list) _____

○ Yes ○ No K Codes: (list) _____

○ Yes ○ No F Codes: (list) _____

Applicable Characteristic Codes:

○ Yes ○ No D001: (how determined) _____ Ignitable

○ Yes ○ No D002: (how determined) _____ Corrosive

○ Yes ○ No D003: (how determined) _____ Reactive

○ Yes ○ No Toxic: (list codes) _____

PCB: Does this waste/sample contain PCBs?

☐ Yes Over 500 ppm

☐ Yes Over 50 ppm

☒ Yes PCBs are suspected

☐ No PCBs are suspected

If YES, what is the source of the PCBs?

☐ Transformer, capacitor, or ballast

☐ Other, specify _____

☒ Unknown

16. Sample Disposition

☒ Return to Customer

☐ Samples found to contain PCBs will be returned to the customer

☐ Dispose of per facility procedures with applied charges for analyses and disposal

Sample(s) Dose Rate at Contact: <0.5 mrem/hr

HPT Signature: [signature]

17. QC Required ☒ Per 222-S Laboratory Quality Assurance Plan (HNF-SD-CP-QAPP-016)

☒ Other (list reference document or attach) LOI for the 276-5 Hexone Tank stabilization sample

18. Special Instructions (Special Storage Requirements, Reporting format, holding times, etc.)

1) see attachment for GEA-screen results

2) Pu content for all samples estimated < $1.0 \times 10^{-3}$ g

19. Requested Turnaround Time Analysis

☐ 2 Weeks ☐ 4 Weeks

☒ Other 45 day interim; 60 day final

20. Sample Received By: [signature] Date 3/4/01 Time 1450

21. Chain of Custody

○ No ☒ Yes

Number: _____

0000093

A-6002-365 (01/99)

FH-0103068

ATTACHMENT 7

# INTERNAL EMAIL
# "CANCELLATION OF TOTAL Hg AND % SOLIDS ANALYSES"
# "HOLDING TIMES FOR THE 276-S HEZONE TANK SLUDGE SAMPLE ANALYSES"

Consisting of 3 pages
Including cover page

## McKinney, Steve G

**From:** Trent, Stephen J
**Sent:** Friday, May 18, 2001 10:06 AM
**To:** McKinney, Steve G
**Cc:** Esch, Ruth A; Powell, Katherine L; Jacques, I D (Duane)
**Subject:** Cancellation of total Hg and % solids analyses

Steve:

It is our understanding that the total Hg analysis cannot be completed for hexone tank samples B11D03-A, B11D04-A, B11D05-A, B11D06-A, and B11D07-A due to the extremely high organic content characterizing these samples. Rich Weiss, our resident chemist agrees that the inability to remove the organic phase from these samples will likely lead to misleading and erroneous Hg results due to organic complexation issues. Therefore, please consider this analysis cancelled for these samples.

Regarding the %solids analysis, it appears that since there is no water in samples B11H72-A, B11H73-A, B11H74-A, and B11H75-A, the %solids analytical procedure is not applicable to these samples. Therefore, the %solids analysis should also be considered cancelled for these particular samples.

If you have any questions or concerns, please call me.

Regards,

Steve Trent
ERC Sample Management
372-9651

## Esch, Ruth A

**From:** Esch, Ruth A
**Sent:** Wednesday, March 14, 2001 10:33 AM
**To:** Trent, Stephen J
**Cc:** Powell, Katherine L; Prilucik, John R; Clark, Glen A
**Subject:** Holding Times for 276-S Hexone Tank Sludge Sample Analyses

Steve,

Samples were collected from the 276-S Hexone Tank between 3/3/01 and 3/7/01 and received at the 222-S Laboratory on 3/9/01. The chain of custody (COC) and Sampling Authorization Form (SAF) request of analyses for pH, cyanide, metals, anions, PCB, SVOA and VOA. Several of these requested analyses have relatively short holding times.
An email that I received on 3/9/01 requested that the Laboratory make a "best effort" to meet the holding times for the organic analyses.

| Analysis | Holding Time |
|---|---|
| pH | ASAP |
| nitrate | 48 hours |
| PCB | 14 days to extraction |
| SVOA | 14 days to extraction |
| VOA | 14 days |

The delay in delivery consumed 2 - 6 days of these very short holding times.

The intent of this message is to inform you that due to the RadCon requirement for performing total alpha analysis prior to other analyses, the 222-S Laboratory will miss all of the holding times for the analyses listed above. We will make our best effort to perform the analyses with as little additional delay as possible.

*Ruth Esch*
*222-S Project Coordinator*

ORIGINAL Dayes

SDR # B01-057
Revision #: 0
Date Initiated: 03/14/01

# SAMPLE DISPOSITION RECORD

**SAF: B01-040**
**OU: N/A**
**Project ID: 276-S**
**Task ID: 2**
**Sampling Event: 276-S Hexone Tank Sludge**

**Laboratory: 222-S Lab Operations**

**Task Manager: P. J. Woods**

**Sampling Information:**
**Number of Samples: 5**
**ID Numbers: B11D03-A, B11D04-A, B11D05-A, B11D06-A, B11D07-A**
**Matrix: Other Solid**
**Collection Date: 03/01/01 – 03/07/01**

**Issue Background:**

**Class:** ☐ Project Data Use ☒ General Laboratory Direction ☐ Validation Direction ☐ Sample Management Direction

**Type: Cancellation of Analyses**

**Description: Cancellation of WTPH-D Analysis**

**Disposition:**

**Description: The chains of custody for the listed samples inadvertently requested that WTPH-D analyses be performed on the listed samples. However, the 222-S laboratory does not have the capability to perform the WTPH-D analysis. As a result, the WTPH-D analysis was cancelled.**

**Justification: The WTPH-D analysis was cancelled for the listed samples because the laboratory does not perform this analysis.**

**Approval Signatures:**

S. J. Trent — 4/5/01
Project Coordinator (Print/Sign Name) — Date

P. J. Woods — 4-10-01
Task Manager (Print/Sign Name) — Date